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## AOR - continued

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1018	2008 softcover Radio Amateur's HB w/CD	\$ 44.95
1026	2008 hardcover Radio Amateur's HB w/CD	59.95
5781	1970-74 QST on CD-ROM	39.95
5773	1975-79 QST on CD-ROM	39.95
5765	1980-84 QST on CD-ROM	39.95
5757	1985-89 QST on CD-ROM	39.95
5749	1990-94 QST on CD-ROM	39.95
8497	1995-99 QST on CD-ROM	39.95
9418	2000-04 QST on CD-ROM	39.95
5579	1995 ARRL Periodicals CD-ROM	19.95
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9396	2004 ARRL Periodicals CD-ROM	19.95
9574	2005 ARRL Periodicals CD-ROM	19.95
9841	2006 ARRL Periodicals CD-ROM	19.95
0011	200 Meters & Down (early ham radio)	12.00
1103	AC Power Interference Handbook 3rd ed.	34.95
9167	APRS Moving Hams on Radio & Internet	17.95
9450	Amateur Radio on the Move	19.95
9876	Antenna Book w/CD-ROM	44.95
0194	Antenna Compendium 1	10.00
2545	Antenna Compendium 2	14.00
5625	Antenna Compendium 5 w/software	20.00
7431	Antenna Compendium 6 w/software	22.95
8608	Antenna Compendium 7	24.95
9558	Basic Radio	29.95
9833	DXCC Countries List	5.95
9884	DXCC Handbook	19.95
6354	DXing on the Edge	29.95
9388	Emergency Communication Handbook	19.95
9531	Emergency Power for Radio Comms	19.95
8659	Extra Class License Manual	24.95
8888	Extra Q & A Manual	17.95
9965	General Class License Manual	24.95
9957	General Q & A Manual	17.95
9728	Getting Started with Ham Radio	19.95
1034	HF Digital Handbook 4th edition	19.95
8268	Ham Radio FAQ	14.95
9639	Ham Radio License Manual (new ham)	24.95
8926	Hints and Kinks 16th edition	15.95
9361	Hints and Kinks 17th edition	17.95
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6583	Satellite Handbook	24.95

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8624	Simple and Fun Antennas for Hams	22.95
9825	Software Library for Hams, 2.0	19.95
9647	Technician Q & A Manual	15.95
2701	Transmitter Hunting	24.95
9930	07/08 TravelPlus for Repeaters CD-ROM	39.95
3983	Understanding Basic Electronics	29.95
9078	VHF/UHF Antenna Classics	14.95
5218	Vertical Antenna Classics	12.00
9183	Vintage Radio	19.95
9264	VoIP and Amateur Radio	17.95
3657	W1FB's QRP Notebook	10.00
4483	Weather Satellite Handbook	20.00
7075	Wire Antenna Classics	14.00
5226	Radio Amateurs World Atlas	12.95
7717	World Azimuthal Map	15.00
2944	World Grid Locator Atlas	5.00
8804	World Robinson Map	15.00
8187	Yagi Antenna Classics	17.95

## Alan Broadband (ALA)

Zap Checker/180	Transmitter/bug detector D	\$ 89.99
185	Dlx analog/dig transmitter/bug detector	159.99

## ALINCO (ALI)

DJ-C7T	300mw cc size 2m/440 HT/lith ion/spkr	\$169.99
EBP-58N	Extra lithium ion battery	41.99
EDH-32	Cigarette lighter cable	21.99
EME-18	Earphone	15.99
EME-24	Earphone/mic	39.99
EME-25	Curl cord earphone	16.99
EMS-60	Speaker/mic	46.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
ESC-38	Soft case	16.99
EMS-50	Speaker/mic; DJ-C5T	19.99
DJ-196T	5w 2m FM HT	119.99
DJ-296T	5w 220 FM HT	149.99
DJ-496T	5w 440 FM HT	149.99
DJ-596T MK II	5w 2m/440 HT/NiMH	209.99
EBP-50N	9.6v 700mah 5w NiMH battery	26.99
EBP-51N	9.6v 1500mah 5w NiMH battery	41.99
EBP-56N	7.4v 1000mah lithium ion battery	54.99
EDC-111	Charger for EBP-56N	50.99
EDC-16B	Cigarette lighter cable w/filter	24.99
EDC-36	Angle plug power cable w/filter	27.99
EDC-37	13.8v power cable	8.99
EDC-43	Cig lighter cable	12.99
EDC-88	Quick charger; nicad battery packs	59.99
EDC-93	Extra wall charger	12.99
EDC-97	Quick charger; MiMH batt packs	69.99
EDC-133	Quick charger; MiMH batt packs	70.99
EDH-30	Dry cell battery case	17.99
EJ-43U	Digital board; original DJ-596T only	39.99
EJ-47U	Digital board; Mk II versions	199.99
EME-6	Earphone	12.99
EME-12	Headset w/earphone/mic/VOX	79.99
EME-13	Headset w/ear bud/mic/VOX	79.99
EME-15	Earphone/mic w/VOX	62.99
EME-20	Tie-pin mic & earphone	19.99
EMS-47	Spkr/mic w/volume control	27.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
ESC-36	Soft case for EBP-48N	15.99
SW-596	Windows prog software; DJ-596T	35.99
DJ-V17T	5w 2m FM HT	129.99
DJ-V27T	5w 220 FM HT	159.99
DJ-V47T	4.5w 440 FM HT	149.99
EBP-63	7.4v 1100mah Li-Ion battery	57.99
EBP-64	7.4v 1600mah Li-Ion battery	61.99
EBP-65	7.2v 700mah NiMH battery	41.99
EBP-66	7.2v 2000mah NiMH battery	43.99
EDC-16B	Cigarette lighter cable w/filter	24.99

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AES Information

## ADI (ADI) AES Price

MTG BKT	Mobile bracket; AR-147/247/447	Δ \$ 4.99
SLC-22L	Leather case; PR-series	Δ .99

## AES (AES)

SP-N	1.6kw 2.5GHz type N surge protector	\$ 49.99
SP-U	1.6kw 600MHz UHF surge protector	49.99
AP	Replacement arc-plug for SP-N/SP-U	9.99

## AIM (AIM)

24-7735P	Coax stripper; RG-58/59/62	\$ 23.99
24-7736P	Coax stripper; RG-59/6/8281	22.99
24-7739P	Coax stripper; RG-8/11/213	33.99
38-305	500ma 3/4.5/6/7.5/9/12vdc adapter	12.99
38-384	4A power supply, 5A surge	54.99

## AOR (AOR)

AR-ONE*	Rcvr/restricted sales! special order	4499.99
AR-5000A+3B	10kHz-3GHz Rcvr/cell blkd spec order	2599.99
AR-5000A+3U*	Rcvr/restricted sales! spec order	2599.99
AR-5000AC*	Rcvr/restricted sales! special order	2749.99
AR-3000AB	.1-2036MHz dtx w/SSB/cell blkd D	899.99
SDU-5500	Spectrum disp unit/PC interf D	799.99
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AR-8600 Mk II-U*	Rcvr/restricted sales! spec order	899.99
SDU-5500	Spectrum disp unit/PC interf D	799.99
SDU-5600	Spectrum disp unit/PC interf Δ	1199.99
AR-8200 Mk III-B	.5M-3G hand/SSB/cell blkd	569.99
AR-8200 Mk III-U*	Rcvr/restricted sales! spec order	579.99
LC-8200	Leather case	24.99
SC-8200P	Soft case	13.99
ARD-9000	Digital SSB interface	D 269.99
ARD-9000 Mk 2	Digital SSB interface	359.99
ARD-9800	Digital SSB/SSTV interface	529.99
LA-350	3-30MHz indoor active loop rcv ant D	269.99
350M	.54-1.6MHz antenna element	D 39.99
LA-380	.01-500MHz indoor active loop rcv ant	379.99

\*United States & state government agencies or a political subdivision thereof and communications utility companies and their legal agents **ONLY** may purchase unblocked models of AR-ONE/AR-5000/AR-8200/AR-



## Alinco - continued

## AES Price

EDC-36	Angle plug power cable w/filter	27.99
EDC-37	13.8v power cable	8.99
EDC-144	Rapid charger	76.99
EDH-34	Dry cell case	17.99
EDS-10	Mic/speaker cable	14.99
EDS-11	Clone cable	14.99
EMS-62	Speaker/mic	41.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
ESC-41	Soft case	15.99
<b>DJ-V5TH</b>	5w 2m/440 FM HT	209.99
EBP-46N	9.6v 600mah 5w nicad battery	71.99
EDC-16B	Cigarette lighter cable w/filter	24.99
EDC-36	Angle plug power cable w/filter	27.99
EDC-37	13.8v power cable	8.99
EDC-43	Cig lighter cable	12.99
EDH-29	Dry cell case for 4-AA's	14.99
EME-6	Earphone	12.99
EME-12	Headset w/earphone/mic/VOX	79.99
EME-13	Headset w/ear bud/mic/VOX	79.99
EME-15	Earphone/mic w/VOX	62.99
EME-20	Tie-pin mic & earphone	19.99
EMS-47	Spkr/mic w/volume control	27.99
ESC-35	Soft case for EBP-45N/46N	15.99
<b>DJ-S11T</b>	340mw 2m FM HT/battery holder	79.99
EDC-78	Wall charger; (not for alkalines)	8.99
EDH-18	12v to 5.5v DC/DC conv/cig plug	19.99
EME-6	Earphone	12.99
EME-12	Headset w/earphone/mic/VOX	79.99
EME-13	Headset w/ear bud/mic/VOX	79.99
EME-15	Earphone/mic w/VOX	62.99
EME-20	Tie-pin mic & earphone	19.99
EMS-47	Spkr/mic w/volume control	27.99
ESC-27	Soft case	18.99
<b>DJ-S40T</b>	500mw 440 FM HT/battery holder	89.99
EBP-52N	3.6v 500mah NiMH battery	41.99
EBP-53N	6v 500mah NiMH battery	50.99
EBP-54N	3.6v 1500mah NiMH battery	54.99
EDC-37	13.8v power cable	8.99
EDC-43	Cig lighter cable	12.99
EDC-105	Drop-in NiMH battery cgr, less ps	27.99
EDC-93	Wall ps for EDC-105	12.99
EDH-31	Dry cell battery case	14.99
EME-6	Earphone	12.99
EME-12	Headset w/earphone/mic/VOX	79.99
EME-13	Headset w/ear bud/mic/VOX	79.99
EME-15	Earphone/mic w/VOX	62.99
EME-20	Tie-pin mic & earphone	19.99
EMS-47	Spkr/mic w/volume control	27.99
ESC-37	Soft case	15.99
<b>DJ-S45T</b>	5w 440 FM HT w/alkaline case	119.99
EME-6	Earphone	12.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
ESC-40	Soft case	17.99
EDH-27	Dry cell case w/charger; DJ-X2T	2.99
EDH-28	DC/DC converter w/cig plug; DJ-X2T	2.99
<b>DJ-X3T</b>	1MHz-1.3GHz AM/FM hand Rcvr/cell blkd	159.99
EBP-52S	3.6v 500mah NiMH battery	41.99
EDC-105	Drop-in NiMH battery cgr, less ps	27.99
EDC-93	Wall ps for EDC-105	12.99
EDH-31S	Dry cell battery case	14.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
ESC-37	Soft case	15.99
<b>DJ-X7T</b>	1MHz-1.3GHz AM/FM hand Rcvr/cell blkd	169.99
EBP-58N	Extra lithium ion battery	41.99
EDH-32	Cigarette lighter cable	21.99
EME-18	Earphone	15.99
EME-25	Curl cord earphone	16.99
ERW-4C	PC cable	43.99

## Alinco - continued

## AES Price

ERW-7	USB PC cable	43.99
ESC-38	Soft case	16.99
<b>DJ-X30T</b>	1-1299MHz receiver/cell blocked	199.99
EDS-12	Remote controller cable	42.99
EME-6	Earphone	12.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
<b>DJ-X2000T</b>	1-2149MHz receiver/cell blocked	499.99
EBP-34N	4.8v 1200mah nicad battery	59.99
EBP-37N	4.8v 700mah nicad battery	38.99
EDC-16B	Cigarette lighter cable w/filter	24.99
EDC-36	Angle plug power cable w/filter	27.99
EDC-37	13.8v power cable	8.99
EDC-43	Cig lighter cable	12.99
EDC-88	Quick charger; nicad battery packs	59.99
EDH-16	Dry cell battery case	14.99
EME-6	Earphone	12.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
ESC-28	Soft case for EBP-33N	2.99
ESC-29	Soft case for EBP-37N	15.99
ESC-30	Soft case for EBP-34N/35N/36N	6.99
<b>DR-03T</b>	10w 10m FM Xcvr	259.99
<b>DR-M06TH</b>	20w 6m FM Xcvr/encoder	229.99
MB-130	Extra mobile bracket	21.99
HK-130	Hardware kit for MB-130	4.99
PC-15B	Extra DC cable	12.99
<b>DR-135T Mk III</b>	Black 50w 2m FM Xcvr	169.99
<b>DR-235T</b>	Black 25w 220 FM Xcvr	219.99
<b>DR-235T Mk III</b>	Black 25w 220 FM Xcvr	249.99
<b>DR-435T Mk II</b>	Black 35w 440 FM Xcvr	239.99
<b>DR-435T Mk III</b>	Black 35w 440 FM Xcvr	269.99
EDC-37	13.8v power cable; ignition on/off	8.99
EDC-43	Cig lighter cable; ignition on/off	12.99
EJ-41U	1200/9600 TNC unit	129.99
EJ-47U	Digital board; Mk II/III	199.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
MB-130	Extra mobile bracket	21.99
HK-130	Hardware kit for MB-130	4.99
PC-15B	Extra DC cable	12.99
SW-620	Windows programming software	35.99
<b>DR-135TP Mk II</b>	Blk 50w 2m FM/9600 TNC	239.99
<b>DR-135TP Mk III</b>	Blk 50w 2m FM/9600 TNC	269.99
EDC-37	13.8v power cable; ignition on/off	8.99
EDC-43	Cig lighter cable; ignition on/off	12.99
EJ-47U	Digital board; Mk II/III versions	199.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
MB-130	Extra mobile bracket	21.99
HK-130	Hardware kit for MB-130	4.99
PC-15B	Extra DC cable	12.99
SW-620	Windows programming software	35.99
<b>DR-620T</b>	50/35w 2m/440 FM Xcvr	299.99
<b>DR-635T</b>	50/35w 2m/440 FM Xcvr	369.99
EDS-9	Separation kit	50.99
EJ-47U	Digital board for DR-620T/635T	199.99
EJ-50U	TNC unit for DR-620T/635T	129.99
ERW-4C	PC cable	43.99
ERW-7	USB PC cable	43.99
MB-130	Extra mobile bracket	21.99
HK-130	Hardware kit for MB-130	4.99
PC-15B	Extra DC cable	12.99
SW-620	Windows programming software	35.99
EDS-8	Adapter; EMS-14 w/DR-140/605TQ	4.99
<b>DX-70TH</b>	Comp HF Xcvr/100w 6m/mob bkt	749.99
<b>DM-330MVT</b>	30A switching ps/meter/32A surge	179.99
<b>DM-340MVT</b>	30A ps w/meters/35A surge	199.99
EBC-8	Front control head bracket	17.99
EBC-9	Extra mobile bracket	36.99
EDS-5	5' microphone extension cable	40.99

## Alinco - continued

## AES Price

EDS-6	15' remote cable	75.99
EDX-2	160-10m 200w wire auto tuner	319.99
EMS-14	Desk top microphone	126.99
PC-25	Extra DC cable	39.99
<b>DX-77T</b>	160-10m HF Xcvr	699.99
<b>DM-330MVT</b>	30A switching ps/meter/32A surge	179.99
<b>DM-340MVT</b>	30A ps w/meters/35A surge	199.99
EDS-5	5' microphone extension cable	40.99
EDX-2	160-10m 200w wire auto tuner	319.99
EMS-14	Desk top microphone	126.99
PC-25	Extra DC cable	39.99

## ALPHA DELTA (ALP)

<b>ATT-3G50</b>	200w 3GHz type N surge protector	\$ 59.99
<b>ATT-3G50-HP</b>	2kw 3GHz type N surge protector	59.99
<b>ATT-3G50U</b>	200w 500MHz UHF surge protector	49.99
<b>ATT-3G50U-HP</b>	2kw 500MHz UHF surge protector	49.99
<b>ATT/3G50</b>	Extra 200w arc-plug cartridge	14.99
<b>ATT/HP/3G50HP</b>	Extra 2kw arc-plug cart	14.99
<b>Delta-2B</b>	500 MHz 2-pos coax switch/protector	59.99
<b>Delta-2/N</b>	1.3 GHz 2-pos N switch/protector	59.99
<b>Delta-2B/N</b>	1.3 GHz 2-pos N switch/protector	75.99
<b>Delta-4B</b>	500 MHz 4-pos coax switch/protector	89.99
<b>Delta-4/N</b>	1.3 GHz 4-pos N switch/protector	79.99
<b>Delta-4B/N</b>	1.3 GHz 4-pos N switch/protector	99.99
<b>D-4</b>	Extra arc-plug; Delta-2/2N/4/4N	9.99
<b>Delta-C</b>	Kit w/ctr ins/2 end ins/static protect	29.99
<b>SEP</b>	Extra arc-plug cart; DX-Ultra/Delta-C	15.99
<b>Delta-CIN</b>	Antenna end insulator	each 1.99
<b>DX-80</b>	80m 134' complete dipole antenna	70.99
<b>DX-40</b>	40m 67' complete dipole antenna	70.99
<b>DX-40/20</b>	40/20m 40' low profile dipole ant	79.99
<b>DX-20</b>	20m 34' complete dipole antenna	70.99
<b>DX-A</b>	160-80-40m twin sloper antenna	100.99
<b>DX-B</b>	160-80-40-30m 60' sloper ant	110.99
<b>DX-CC</b>	80-10m 5-band 82' no trap, no tuner dipole	160.99
<b>DX-DD</b>	80/40m 82' Delta Dipole antenna	130.99
<b>DX-EE</b>	40-10m 4-band 40' no trap, no tuner dipole	140.99
<b>DX-LB</b>	160-80-40m 100' shortened dipole	160.99
<b>DX-LB SWL</b>	160/80/40/20/15/10m 100' short dip	190.99
<b>DX-SWL</b>	AM broadcast-13m 60' SWL sloper ant	120.99
<b>DX-Ultra</b>	AM broadcast-30MHz 80' SWL dipole	160.99
<b>SEP</b>	Extra arc-plug cart; DX-Ultra/Delta-C	15.99
<b>Pathfinder</b>	1.8-30MHz+6m dig auto ant tuner	199.99

## AMECO (AME)

### CODE COURSES - CASSETTE TAPES

<b>100-T</b>	Junior code tape, 0-7% wpm	2.99
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### CODE PRACTICE OSCILLATORS & CODE KEYS

<b>K-1</b>	Bakelite type key	10.95
<b>K-4R</b>	Brass type key	17.95
<b>OCM-2K</b>	Code oscillator & CW monitor kit	19.99
<b>OCM-2W</b>	Wired oscillator & CW monitor	29.99

### PREAMPLIFIERS

<b>TPA</b>	HF receive preamp & indoor active ant	79.99
<b>P-9T</b>	Power supply for TPA	9.99
<b>PT-3</b>	2-54 MHz transceiver preamp	139.99
<b>P-12T</b>	Power supply for PT-3	9.99

### FILTERS

<b>HP-75T</b>	75 ohm high-pass filter	14.99
<b>HP-300T</b>	300 ohm high-pass filter	7.99

## AMERITRON (AMR)

<b>AL-80B</b>	1kw PEP out linear amp (3-500Z)	1299.99
<b>AL-82</b>	1.5kw PEP out linear amp (2 3-500Zs)	2299.99
<b>AL-572</b>	1.3kw PEP out linear amp (4 572Bs)	1399.99
<b>AL-800</b>	1250w PEP out linear (3CX800A7)	1869.99
<b>AL-800H</b>	1.5kw PEP out amp (2 3CX800A7)	2799.99
<b>AL-811</b>	600w PEP out linear amp (3 811As)	669.99
<b>AL-811H</b>	800w PEP out linear amp (4 811As)	799.99
<b>AL-1200</b>	1.5kw PEP out linear (3CX-1200A7)	3199.99
<b>AL-1500</b>	1.5kw out linear amplifier (8877)	3049.99



## Ameritron - continued

	AES Price
ALS-500M 500w PEP out solid state mob amp	749.99
ALS-500RC Remote head; sn 13049 & up	49.99
SPS-75 75A switching power supply w/fan	359.99
ALS-600 600w PEP out solid state amp w/ps	1129.99
ALS-600S 600w PEP out solid state amp/switching ps	1249.99
ARB-704 Amplifier Xcvr interface buffer	59.99
PNP-5M Plug & play cable; FT-847	17.99
PNP-7D Plug & play cable; TS-570S/870S/2000	17.99
PNP-8D Plug & play cable; FT-920/1000 series	17.99
PNP-8M Plug & play cbl; FT-817/840/857/897	17.99
PNP-8MK Plug & play cable; TS-480	17.99
PNP-13D Plug & play cable; IC-706/7000	17.99
PNP-35 Plug & play cable; FT-100 series	17.99
ARB-70412 Amp Xcvr interface/cbl; IC-706/7000	59.99
ATP-100 Amplifier tuning pulser	59.99
ATP-102 Deluxe amplifier tuning pulser	69.99
ATR-20 1.2kw PEP antenna tuner	429.99
ATR-30 3kw PEP antenna tuner	559.99
ADL-1500 1.5kw dummy load with oil	74.99
ADL-2500 2.5kw dummy load with fan	199.99
ICP-120 120v inrush protector	79.99
ICP-240 240v inrush protector	79.99
AWM-30 3kw PEP SWR/wattmeter/rem sens	149.99
AWM-35 3kw PEP mobile SWR/wattmeter	159.99
QSK-5 Stand alone T/R switch	339.99
QSK-5PC PC board kit; T/R switch	259.99
CF-5 Cooling fan for QSK-5	39.99
RCS-4 4-pos wireless remote coax switch	139.99
RCS-8V 160-2m 5-pos remote coax switch	149.99
RCS-8VN 160-2m 5-pos N rem coax switch	159.99
Note: RCS-8V/VN require 8-wire control cable.	
RCS-10 DC-100MHz 8-pos remote coax switch	169.99
Note: RCS-10 requires 4-wire control cable.	

## ANTENEX/LAIRD (ANX)

AB-FT 118-896MHz 1/4 wave NMO whip	\$ 16.99
AB-SCANC VHF/UHF/800MHz NMO mob scan ant	29.99
BB-1442N 144-174 2.4db no grd plane NMO mob	39.99
BB-1443 144-174MHz 3db 49" NMO mobile	39.99
BB-4303 430-450 3db 11 1/2" NMO mobile	34.99
CB-144/440C 2m/440 2/5db 36" NMO mobile	49.99
CWB-1443 Self-tuning 144-156 3db NMO mob	49.99
CWB-4405C Self-tuning 440-470 5db NMO mob	49.99
FG-1440/FM-2 2m 92" fg unity gain N base w/mt	129.99
FG-1443/FM-2 2m 107" fg 3db N base ant w/mt	199.99
FG-4403/FM-2 440-450 44" fg 3db N base w/mt	149.99
FG-4405/FM-2 440-450 76" fg 5db N base w/mt	199.99
GB-8PSTI NMO mag mt w/coax & teflon PL259	34.99
LBMB-9034 Mirror mt 3/4" hole L-bracket	10.99
MB-8PST NMO hole mt w/coax & teflon PL259	16.99
TR8-PST Chrome NMO mini trunk mt/coax/PL259	26.99
TRABT-1420 142-164 Phantom whipless NMO	59.99
TRAB-4303 430-450 3db Phantom whipless NMO	29.99
VTPM NMO mt; up to 1" thick plate (UHF barrel)	19.99
Y-1363 136-150MHz 3el 7.1db gold N beam	99.99
Y-1365 136-150MHz 5el 9.2db gold N beam	129.99
Y-4303 430-450 3el 7.1db gold welded N beam	99.99
Y-4305 430-450 5el 9.2db gold welded N beam	129.99

## Antenna Specialists (ASP)

APR143 2m 23" on glass cell look-alike ant	\$ 69.99
APS151 2m 3db 33" on glass antenna	69.99
KAV-353 On glass replacement mtg kit	13.99

## Antenna Supermarket (ANT)

Eavesdropper* 60-11m trap dipole SWL ant	\$ 99.99
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\*Specify SO-239 or twin-lead

## ARROW Antenna (ARA)

146/437-10 3 el 2m/7el 440 handheld beam	\$ 73.00
146/437-10BP 3el 2m/7el 440 HH split bm beam	79.00
10w duplexer (installs in boom) w/BNC	59.00

## Arrow - continued

10w duplexer (installs in boom) w/SMA	64.00
OSJ-146/440 2m/440 57.5" J-pole antenna	39.00

## ARTSCI (ART)

Lost Users Manuals	\$ 19.95
Repeater Mapbook 14th edition	14.99

## ASTRON (ASR)

RS-4L 3A ps, 4A surge, w/cig lighter socket	\$ 49.99
RS-7A 5A power supply, 7A surge	59.99
RS-10A 7.5A power supply, 10A surge	69.99
RS-12A 9A power supply, 12A surge	79.99
RS-12S 9A ps, 12A surge, w/speaker	79.99
RS-20A 16A power supply, 20A surge	99.99
RS-35A 25A power supply, 35A surge	149.99
RS-35A/220V 220v 25A ps, 35A surge	139.99
RS-50A 37A power supply, 50A surge	219.99
RS-70A 57A power supply, 70A surge	279.99
RS-20M 16A ps w/meters, 20A surge	119.99
RS-35M 25A ps w/meters, 35A surge	169.99
RS-50M 37A ps w/meters, 50A surge	239.99
RS-70M 57A ps w/meters, 70A surge	299.99
VS-20ML Variable 16A ps/meters, 20A surge	139.99
VS-35M Variable 25A ps/meters, 35A surge	199.99
VS-50M Variable 37A ps/meters, 50A surge	259.99
RM-35M 25A rack mt ps/meters, 35A surge	259.99
RM-50M 37A rack mt ps/meters, 50A surge	299.99
RM-60M 50A rack mt ps/meters, 55A surge	389.99
SS-25 20A switching ps, 25A surge	119.99
SS-25M 20A switching ps/meters, 25A surge	139.99
SS-30 25A switching ps, 30A surge	129.99
SS-30M 25A switching ps/meters, 30A surge	149.99
N2412-12 10A 22-32vdc to 13.8vdc converter	59.99
N2412-24 20A 22-32vdc to 13.8vdc converter	89.99

## AvMap (AVM)

G-4T Geosat 4 GPS/THD7A/TMD700A cable	\$ 599.99
G-5 Geosat 5 GPS/THD7A/TMD700/710A cable	649.99

## BMI (BMI)

972AD 14" 12/24-hour wall clock	\$ 32.99
973A 12" 24-hour wall clock	49.99

## B & W (B&W)

AC-1.8-30 Continuous 1.8-30 MHz vee ant	\$ 279.99
AP-10B 51" portable 40/20/15/10/6/2m ant D	89.99
BWD-20 14-30 MHz 20' folded dipole	269.99
BWD-45 7-30 MHz 45' folded dipole	269.99
BWD-65 4-30 MHz 65' folded dipole	279.99
BWD-90 1.8-30 MHz 90' folded dipole	279.99
FDMK Mtg kit; folded dipole w/3 pole installation	45.99

## BELDEN (BEL)

### 52 OHM COAXIAL CABLE

8216 RG-174 (sub-miniature)	per ft.	\$ .41
8216	100 ft. Roll	39.99
8216	500 ft. Roll	139.99
8216	1000 ft. Roll	259.99
8240 RG-58U (solid center)	per ft.	.43
8240	100 ft. Roll	41.99
8240	500 ft. Roll	149.99
8240	1000 ft. Roll	279.99
8259 RG-58AU (stranded center)	per ft.	.47
8259	100 ft. Roll	45.99
8259	500 ft. Roll	154.99
8259	1000 ft. Roll	279.99
8219 RG-58AU (stranded, foam)	per ft.	.46
8219	100 ft. cut	44.99
8219	500 ft. Roll	169.99
8219	1000 ft. Roll	309.99
8262 RG-58CU (non-contaminating)	per ft.	.49

## Belden - continued

8262	100 ft. cut	46.99
8262	500 ft. Roll	199.99
8262	1000 ft. Roll	374.99
9258 RG-8X (stranded, foam)	per ft.	.54
9258	100 ft. cut	49.99
9258	500 ft. Roll	199.99
9258	1000 ft. Roll	369.99
8237 RG-8U	per ft.	.99
8237	100 ft. Roll	94.99
8237	500 ft. Roll	369.99
8214 RG-8U (foam)	per ft.	.94
8214	100 ft. Roll	89.99
8214	500 ft. Roll	424.99
8214	1000 ft. Roll	809.99
9913 RG-8U (low loss)	100 ft. Roll	96.99
9913	250 ft. Roll	199.99
9913	500 ft. Roll	379.99
9913F7 RG-8U (low loss, flexible)	per ft.	1.24
9913F7	100 ft. Roll	119.99
9913F7	250 ft. Roll	249.99
9913F7	500 ft. Roll	444.99
8267 RG-213 (non-contaminating)	per ft.	1.29
8267	100 ft. cut	124.99
8267	500 ft. Roll	554.99

### 75 OHM COAXIAL CABLE

8241 RG-59U (73 ohm, solid center)	per ft.	\$ .47
8241	100 ft. Roll	44.99
8241	500 ft. Roll	139.99
8241	1000 ft. Roll	264.99
9248 RG-6U (75 ohm, solid center)	per ft.	.52
9248	1000 ft. Roll	374.99
8238 RG-11 (75 ohm, stranded center)	per ft.	1.29
8238	100 ft. cut	119.99
8238	500 ft. Roll	489.99
8213 RG-11 (75 ohm, solid, foam)	per ft.	1.26
8213	100 ft. cut	116.99
8213	500 ft. Roll	464.99

### ROTOR CABLE

8484 4-wire; 4-20 gauge	per ft.	\$ .49
8484	100 ft. cut	44.99
8484	500 ft. Roll	199.99
8484	1000 ft. Roll	379.99
8448 8-wire; 2-18, 6-22 gauge	per ft.	.54
8448	100 ft. cut	49.99
8448	500 ft. Roll	209.99
8448	1000 ft. Roll	399.99
9405 8-wire; 2-16, 6-18 gauge	per ft.	1.19
9405	100 ft. cut	114.99
9405	500 ft. Roll	489.99
9405	1000 ft. Roll	924.99

### COPPERWELD ANTENNA WIRE

8000 No. 14 stranded antenna wire	per ft.	\$ .50
8000	100 ft. Roll	43.99
8000	1000 ft. Roll	339.99

### No. 8 ALUMINUM GROUND WIRE

8018 Multiples of 50 ft.	each	\$ 26.99
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Note: All above roll pricing is for rolls as shown only; all other lengths, even if more than roll length shown or a multiple of roll length shown, are sold at the per ft. price.

### FOAM COAX w/PL-259s ON BOTH ENDS

9354 50' RG-8U foam	\$ 99.99
9355 75' RG-8U foam	129.99
9356 100' RG-8U foam	149.99

## BENCHER (BEN)

BY-1 Iambic keyer paddle w/black base	\$ 114.99
BY-2 Iambic keyer paddle w/chrome base	139.99



Benchner - continued		AES Price
BY-3 Iambic keyer paddle, gold plated	.....Δ	299.99
BY-4 Iambic paddle/blk base/gold components		179.99
170-82 Mercury paddle	.....drop ship	449.99
ST-1 Single lever keyer paddle, black base	...	119.99
ST-2 Sgl lever kyr paddle, chrome base	.....	139.99
RJ-1 Dlx hand key w/navy knob/black base	..	110.99
RJ-2 Dlx hand key w/navy knob/chrome base	.....	135.99
YA-1 1kw low pass filter	.....	90.99

BETTER RF (BET)		
706 Tune Control for IC-706 series/IC-718	....	\$ 32.99
7000 Tune Control for IC-7000	.....	54.99
I-Mate Msg acc; 746PRO/756PRO II/III/7800	.....	74.99
Yae Tune Control for FT-100/857/897 series	..	44.99

Bounty Hunter (BOU)		
Fast Tracker Metal detector/2-tone target ID	Δ	\$ 69.99
Tracker IV Metal detector/3-mode	.....	129.99
Quick Draw II Metal detector/full motion	.....	229.99
Sharp Shooter II Metal detector/LCD readout	.....	269.99
Land Star Metal detector/3-tone audio discrim	.....	319.99
Land Ranger Metal detector/programmable	.....	399.99
Time Ranger Metal detector/top-of-the-line	.....	499.99
Carry Bag For Bounty Hunter metal detectors	.....	29.99
10" Coil 10" magnum coil; adds depth	.....	49.99

BUCKMASTER (BUC)		
HamCall CD-ROM ham listings	.....	\$ 50.99
OCF 6-band 300w 135' off-center-fed dipole	.....	191.99

BUSHNELL (BUS)		
10-1911 Velocity sports speed gun	.....	\$ 99.99
13-0430 4x30 LiteVision compact binoculars	Δ	6.99
13-3410 7x35 Falcon binoculars	.....Δ	14.99
78-0101 1.25" 9mm Kellner eye; 0040/6000/8000	Δ	19.99
78-2010 4.5" reflector telescope	.....Δ	99.99

BUTTERNUT (BUT)		
Skyhawk 3X10 Triband 10 el, 24' beam w/bauln *	.....	\$ 1149.99
*Skyhawk 3X10 is drop-shipped (shipped direct to you from the Butternut factory). On factory drop-shippments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Wood Dale, Illinois via UPS, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on this special order item.		
HF-6VX 80/40/30/20/15/10m 26' vert ant	....	389.99
HF-9VX 80/40/30/20/17/15/12/10/6m 26' vert	.....	449.99
A17-12 17 & 12m kit for HF-6VX	.....	66.99
CPK Counterpoise kit	.....	169.99
MPS Mounting post sleeve	.....	14.99
RMK-II Roof mounting kit w/radials	.....	189.99
STR-II Radial kit only	.....	144.99
TBR-160S 160m resonator	.....	159.99
HF-2V 80/40m 32' vertical	.....	299.99
TBR-160S 160m resonator	.....	159.99

CQ (CQX)		
Building and Using Baluns and Ununs	.....	\$ 19.99
HR Anthology - Homebrewing Techniques	.....	19.99
W6SAI HF Antenna Handbook	.....	19.99

CSS (CSS)		
Pacterm for Windows Software; Kan TNCs	...	\$ 99.99
PKTerm for Windows Software; PK-12/96/232	.....	99.99

CABLE X-PERTS (CAB)		
CXP1318FX CXP1318FX (low loss, flexible) per ft.	.....	\$ .99
CXP1318FX	.....500 ft. Roll	449.99
CXP1318FC-3 3' CXP1318FX/silver teflon PL259s	.....	20.99
CXP1318FC-50 50' CXP1318FX/silver teflon PL259s	.....	63.99

Cbl X-pts continued		AES Price
CXP1318FC-75 75' CXP1318FX/silver teflon PL259s	.....	97.99
CXP1318FC-100 100' CXP1318FX/silver teflon PL259s	.....	126.99
CXP1318FC-150 150' CXP1318FX/silver teflon PL259s	.....	176.99
CXP1318FN-3 3' CXP1318FX/type N males	....	27.99
CXP1318FN-75 75' CXP1318FX/type N males	.....	99.99
CXP1318FN-100 100' CXP1318FX/type N males	.....	132.99
CXP1318FN-125 125' CXP1318FX/type N males	.....	159.99
CXP008C-3 3' RG8 foam/silver teflon PL259s	.....	20.99
CXP008C-6 6' RG8 foam/silver teflon PL259s	.....	23.99
CXP008C-25 25' RG8 foam/silver teflon PL259s	.....	35.99
CXP008C-50 50' RG8 foam/silver teflon PL259s	.....	52.99
CXP008C-75 75' RG8 foam/silver teflon PL259s	.....	69.99
CXP008C-100 100' RG8 foam/silver teflon PL259s	.....	93.99
CXP008C-125 125' RG8 foam/silver teflon PL259s	.....	109.99
CXP213C-6 6' RG213/silver teflon PL259s	....	24.99
CXP213C-15 15' RG213/silver teflon PL259s	.....	34.99
CXP213C-25 25' RG213/silver teflon PL259s	.....	44.99
CXP213C-50 50' RG213/silver teflon PL259s	.....	68.99
CXP213C-75 75' RG213/silver teflon PL259s	.....	91.99
CXP213C-100 100' RG213/silver teflon PL259s	.....	117.99
CXP08XC-18IN 18" RG8X/silver teflon PL259s	.....	12.99
CXP08XC-3 3' RG8X/silver teflon PL259s	.....	15.99
CXP08XC-6 6' RG8X/silver teflon PL259s	.....	17.99
CXP08XC-12 12' RG8X/silver teflon PL259s	.....	21.99
CXP08XC-25 25' RG8X/silver teflon PL259s	.....	24.99
CXP08XC-50 50' RG8X/silver teflon PL259s	.....	34.99
CXP08XC-75 75' RG8X/silver teflon PL259s	.....	44.99
CXP08XC-100 100' RG8X/silver teflon PL259s	.....	54.99

6633S Type N male plug	.....	6.99
CXP058ARBP-3 3' RG58/ft angle BNC male - PL-259	.....	19.99
CXP058ARBS-3 3' RG58/BNC male - SO-239	.....	28.99
CXP142SBJ-3 3' RG142/SMA male - BNC female	.....	27.99
CXP08XC-3 3' RG8X/male BNCs	.....	25.99
CXP08XC-6 6' RG8X/male BNCs	.....	27.99
CXP16RSSO-3 3' RG316/SMA male - SO-239 D	.....	22.99
235 1" tinned copper ground braid	.....per ft	1.35
235	.....100 ft. Roll	117.99
2332 1/2" tinned copper ground braid	.....per ft	.84
2332	.....100 ft. Roll	66.99
AZ-10 10ga red/black DC power cord per ft,D	.....	1.15
AZ-10	.....100 ft. Roll,D	101.99
AZ-12 12ga red/black DC power cord	.....per ft	1.10
AZ-12	.....100 ft. Roll	95.99

CAT Comm (CAT)		
NVSCAN-1 Southern NV Radio Scanning Directory	.....	\$ 15.99

CELESTRON (CEL)		
52211 60mm wildlife zoom spotting scope/tripod	D	\$ 79.99
93353 1.25" 18mm Ultima lens	.....Δ	59.99
93497 Standard tripod	.....Δ	69.99
93700 CD-ROM "The Sky for Celestron"	.....Δ	9.99

Channel Master (CHA)		
9521A Prog light duty rotor/IR rem cont/3-wire	.....	\$ 99.99

CLOCKS		
BMI 972AD 14" 12/24-hour wall clock	.....	\$ 27.99
BMI 973A 12" 24-hour wall clock	.....	49.99
LAC WT-3102S 10" 12-hr analog atomic clock	.....	19.99
MFJ 105C 24-hour quartz wall clock	.....	24.99
MFJ 107B 24-hour digital clock	.....	12.99
MFJ 108B 24/12-hour dual disp digital clock	.....	21.99
MFJ 112B Deluxe world map clock	.....	29.99
MFJ 113 24/12-hr 1.8" LED clock/batt back-up	.....	19.99
MFJ 118 Giant 24/12 hour LCD clock	.....	29.99
MFJ 123 Eternity solar atomic clock	.....D	69.99
MFJ 123B Eternity solar atomic clock	.....	79.99
MFJ 125 Calendar 24-hour analog wall clock	.....	34.99

COAX SEAL (UNV)		
104 1/2" x 60" coax seal	.....	\$ 3.99

Coaxial Dynamics (COA)		AES Price
81000-A Wattmeter w/SO-239s	.....	\$289.99
83000-A Peak reading wattmeter w/SO-239s	.....	413.99
82004 50w 2-30MHz element	.....	91.99
82005 100w 2-30MHz element	.....	91.99
82006 250w 2-30MHz element	.....	91.99
82007 500w 2-30MHz element	.....	91.99
82008 1000w 2-30MHz element	.....	91.99
82009 2500w 2-30MHz element	.....	131.99
82010 5000w 2-30MHz element	.....	131.99
82013 10w 25-60MHz element	.....	75.99
82014 25w 25-60MHz element	.....	75.99
82015 50w 25-60MHz element	.....	75.99
82016 100w 25-60MHz element	.....	75.99
82029 10w 100-250MHz element	.....	75.99
82031 50w 100-250MHz element	.....	75.99
82033 250w 100-250MHz element	.....	75.99
82046 10w 400-1000MHz element	.....	75.99
82048 50w 400-1000MHz element	.....	75.99
82049 100w 400-1000MHz element	.....	75.99
88000 N female quick match connector each	.....	13.99
88800 Carrying case for meter	.....	72.99

COBRA (COB)		
19DX IV AM Mobile CB	.....	\$ 49.99
25LTD (25LTD Classic) AM Mobile CB	.....	89.99
25WXNW ST Night Watch Sound Tracker AM Mob CB/WX	.....	109.99
29LTD (29LTD Classic) AM Mobile CB	.....	99.99
29NW Night Watch AM Mobile CB	.....	119.99
29WXNW ST Night Watch Sound Tracker AM Mob CB/WX	.....	129.99
75WX ST Sound Tracker AM Mobile CB w/WX	.....	99.99
1486TL SSB/AM Mobile CB	.....	149.99
HH-Road Trip Sound Tracker HH CB/WX/mag ant	.....	79.99
HGA-1000 Magnet mt CB antenna	.....	19.99
HGM-77 Noise canx/amplified mobile mic	....	24.99

COMET (CMT)		
SWR/POWER METER		
CMX-1 1.8-60MHz 2kw remote SWR/pwr meter	.....	\$ 169.99
EKS-3 Optional 10' extension cable for CMX-1	.....	28.99

MOBILE ANTENNAS		
B-10 2m/440 0/2.15db 12" cell look-alike ant	.....	\$ 42.99
B-10NMO 2m/440 0/2.15db 12" cell look-alike NMO	.....	42.99
C-757NMO 2m/440 2.15/5.5db 38" foldover NMO D	.....	49.99
CA-2X4SR 2m/440 3.8/6.2db 40" mob ant	....	69.99
CSB-750A 2m/440 3.6/6.1db 42" foldover ant	.....	72.99
CSB-770A 2m/440 4.4/6.9db 51" foldover ant	.....	89.99
CSB-790A 2m/440 5.1/7.7db 62" foldover ant	.....	115.99
HP-32FHN 2m/440 3/5.5db 34" 350/250w ant	.....	89.99
M-24B 2m/440 1.7/4.1db mag mt ant w/BNC	.....	39.99
M-24M 2m/440 1.7/4.1db mag mt ant w/PL259	.....	39.99
M-24S 2m/440 1.7/4.1db mag mt ant w/SMA	.....	39.99
SBB-1 2m/440 1.5/2.15db 16" flex mobile	....	42.99
SBB-1NMO 2m/440 1.5/2.15db 16" flex NMO	.....	42.99
SBB-2 2m/440 2.15/3.8db 18" black mobile	.....	42.99
SBB-2NMO 2m/440 2.15/3.8db 18" blk NMO	.....	42.99
SBB-5 2m/440 3/5.5db 39" black mobile ant	.....	58.99
SBB-5NMO 2m/440 3/5.5db 39" black NMO	.....	58.99
SBB-7 2m/440 4.5/7.2db 58" black mob ant	.....	79.99
SBB-7NMO 2m/440 4.5/7.2db 58" black NMO	.....	79.99
SB-14 6m/2m/440 43" chrome mobile ant	....	67.99
SB-15 6m/2m/440 0/4.5/7.2db 58" chr mob	.....	84.99
SBB-25 2m 4.1db black mobile antenna	.....	48.99
SBB-25NMO 2m 4.1db black NMO mob ant	....	48.99
SB-97 2m/440/1.2 3/6.8/9.6db 39" type N	....	84.99
SB-123 1.2GHz 7.2db 24" type N mobile ant	.....	54.99
SBB-224 2m/220/440 2.15/3.5/6db blk mob	.....	78.99
SBB-224NMO 2m/220/440 2.15/3.5/6db blk NMO	.....	78.99
SF-245 2.4 GHz 7db 18" fg type N ant	.....Δ	39.99
SF-245SPRR 2.4GHz 7db 18" fg N ant/spring	.....	59.99
UHV-4 10/6/2/440 55" mobile ant; FT8900R	.....	109.99



Comet - continued		AES Price
HV-R 40/15/10/6m base station radial kit		119.99
UHV-6 40/15/10/6/2m/440 78" mobile ant ...		159.99
HV-R 40/15/10/6m base station radial kit		119.99
L-3.5 80m loading coil for UHV-6		34.99
L-14 20m loading coil for UHV-6/CA-HV		29.99
L-18 17m loading coil for UHV-6/CA-HV		29.99
MOBILE MOUNTS		
3D4M Mobile mt, 13' coax w/UHF connectors	\$	26.99
3D4N Mobile mt, 13' coax w/type N		26.99
3D5M Mobile mt, 16.5' coax w/UHF connectors		28.99
5D4N Roof mount, 13' coax w/type N		34.99
AD-10N NMO mount to female N adapter		17.99
AD-15M NMO mount to SO-239 adapter		17.99
AD-25M SO-239 to NMO mount adapter		14.99
AD-35M 3/4-24 stud to UHF mobile mt adapter		17.99
CK-3-3/8-24 Dlx 2-step 16.5' cbl/3/8-24/UHF		42.99
CK-3M Dlx 2-step 9'9" cable w/UHF connectors		35.99
CK-3M5 Dlx 2-step 16.5' cable w/UHF connects		42.99
CK-3NMO Dlx 2-step 16.5' cable w/NMO/UHF		42.99
CK-5N Dlx 13' cable assembly w/type N		49.99
CM-5M Hvy duty mag mt, coax, max 4' ant		24.99
CP-5-3/8-24 HD 3/4-24 mt (RS-730) w/16.5' coax		69.99
CP-5M Hvy duty UHF mt (RS-730) w/16.75' coax		69.99
CP-5NMO Hvy duty NMO mt (RS-730) w/16.5' coax		69.99
CR-5M Std coax assy, 16.5' coax, UHF conn		19.99
CR-5M Trunk lip mount w/16.5' coax		39.99
GRB-5M Deluxe black trunk lip mt w/coax		69.99
HD-5-3/8-24 HD 3/4-24 lip mt (RS-840) w/16.5' coax		69.99
HD-5M Hvy duty lip mt (RS-840) w/16.5' coax		69.99
MG-4N Magnet mt w/13' coax, N connector		54.99
RS-520 Mini heavy duty trunk/hatch mount		28.99
RS-560C Luggage rack mount, no coax		37.99
RS-720 Hatch/rear door/tkn multi-adj mt		29.99
RS-720NMO Hch/rear door/tkn multi-adj NMO mt		29.99
RS-730 HD rear van/SUV door/tkn lip mt, no coax		32.99
RS-840 HD low profile lip mt w/lateral support		32.99
WS-1M Window clip mt w/UHF connectors		66.99
BASE STATION ANTENNAS		
CA-712EF 440 9db 10' 5" base antenna	\$	109.99
CA-ABC22A 2m 6.5db 9' 5" base/rpr ant		75.99
CA-ABC23 2m 7.8 db 13' 4" base/rpr ant		109.99
CA-52HB4 6m 4 el 10.4db 10' 6" boom beam		139.99
CHA-250B 3.5-57MHz no radials 23.5' vertical		429.99
CS-333 2m/220/440 6.5/7.8/9db 10.25' ant		189.99
CYA-1216E 1.2GHz 16el 16.6db 4' 5" bm N beam		109.99
DS-150S 6m/2m/440/900/1.2 discone/60' coax		99.99
GH-50 6m 2.15db 7' 10" fg base antenna		109.99
GP-1 2m/440 3/6db 4' 1" base/rpr antenna		74.99
GP-3 2m/440 4.5/7.2db 5' 11" base/rpr ant		99.99
GP-6 2m/440 6.5/9db 10' 2" base/rpr ant		159.99
GP-9 2m/440 8.5/11.9db 17' 8" base/rpr		219.99
GP-9N 2m/440 8.5/11.9db 17' 8" N base/rpr		219.99
GP-15 6/2m/440 3/6/2.8db 7' 11" base		179.99
GP-21/CA-1221S 1.2 14.8db 8' N base/rpr		169.99
GP-24R 2.4GHz 15.4db 5' 10" N base/rpr		149.99
GP-95 2m/440/1.2 6/8.6/12.8db 8' 1-pc N ant		159.99
GP-98 2m/440/1.2 6.5/9/13.5db 9' 8" N ant		169.99
H-422 40/20/15/10m 34' rotatable dipole		299.99
KP-20 900 MHz 9.2db 7' 4" type N base/rpr		119.99
DUPLEXERS AND TRIPLEXERS		
CF-142 1.3-150/200-480 600/400w UHF/leads	\$	69.99
CF-360A 1.3-30/50-470 600w UHF w/leads		69.99
CF-360B 1.3-30/50-470 600w UHF/common lead		69.99
CF-416A 2m/440 800/500w UHF w/leads		49.99
CF-416B 2m/440 800/500w UHF/N w/leads		49.99
CF-416C 2m/440 800/500w N/UHF/N leads		54.99
CF-416W 1.3-250/400-1400 400/200w N/leads		69.99
CF-530 1.3-90/125-470 600w UHF w/leads		74.99
CF-530C Backwards duplexer for FT-8900R		69.99
CF-706A 1.3-56/75-470 350w UHF w/leads		74.99

Comet - continued		AES Price
CF-4130B 1.3-460/840-1400 800/500/200w NUHF		49.99
CF-4160I 2m/440 800/500w UHF/UHF/N, no leads		48.99
CF-4160J 2m/440 800/500w SO239, no leads		53.99
CF-4160K 2m/440 800/500w all UHF, no leads		48.99
CFX-324A 2m/220/440 600w UHF w/leads		88.99
CFX-324B 2m/220/440 600w UHF, no leads		85.99
CFX-514 HF/2m/440 800/800/500w UHF w/leads		79.99
CFX-514J HF/2m/440 800/800/500w UHF, no leads		74.99
CFX-514N HF/2m/440 800/800/500w UHF/N w/leads		79.99
CFX-4310C 1.3-150/440/1.2 triplexer, no leads		79.99
CFX-5140 HF/6m/2m/440 800/800/500w UHF, no leads		74.99
HT & HANDHELD SCANNER ANTENNAS		
BNC-24 2m/440 17" 2.15/5.3db BNC whip	\$	24.99
CH-32 2m/440 1.75" BNC Miracle Baby ant		29.99
CH-75 2m/440 0/3.2db 14.75" BNC ant		25.99
HB-05 18" BNC female - SMA male adapter/cbl		14.99
HM-05 18" BNC male - SO-239 adapter/cable		14.99
HS-05 18" SMA male - SO-239 adapter/cable		14.99
HS-10 39" SMA male - SO-239 adapter/cable		17.99
HT-224 2m/220/440 11.5" SMA antenna		47.99
SH-55 2m/440 1.5/3.2db 15" BNC ant		33.99
SH-95 2m/440/1.2 1.5/2.15/5.5db BNC ant		34.99
SMA-3 2m/440 1.2/1.7db 9.75" SMA ant		39.99
SMA-24 2m/440 17" 2.15/5.3db SMA whip		24.99
SMA-501 2m/440/900 1.5" SMA antenna		29.99
SMA-503 2m/440 8.75" SMA antenna		29.99
SMA-703 2m/440/1.2GHz 6.5" SMA ant		31.99
Comm Outfitters (COF)		
EXP-1 Expedition Pack for Yaesu FT-817	\$	99.99
COMM-SPEC (COM)		
ID-8 Automatic Morse station identifier	\$	69.99
SS-64 64-tone mini prog CTCSS encoder		28.99
TE-32 32-tone CTCSS prog encoder box		49.99
TS-64DS 64-tone CTCSS prog encoder/decoder		57.99
CONNECTORS		
AMPHENOL COAX CONNECTORS (AMP)		
83-1SP-1050 Male coax plug (PL-259)	\$	2.49
83-1SP Silver plated coax plug (PL-259)		2.99
(CZL) 401TS silver plated teflon PL-259	Δ	1.99
83-168-RFX Reducer, RG-59/RG-8X (UG-176)		.99
83-185-RFX Reducer for RG-58 (UG-175)		.99
(SHA) PL-259-CP-G Solderless PL259, RG8X/58		6.99
(SHA) PL-258-CP-G Solderless splice, RG8X/58		9.99
83-1AP Right angle adaptor (UG-646)		10.99
83-1J Double female adaptor (PL-258)		8.99
83-1R Female chassis mt socket (SO-239)		3.99
83-1T T-connector adaptor (M-358)		14.99
83-877 Double male adaptor		19.99
83-878 Single hole 3/8" chassis socket		5.99
31-002 BNC male connector for RG-58		5.99
31-012 BNC male connector; RG-59/RG-8X		9.99
31-221 BNC female chassis socket		2.99
82-24 Type N female chassis mt socket		9.99
82-64 Type N right angle adaptor		19.99
(CAB) 6633S Type N male; 8214/9913/9913F		6.99
82-202-1006 Type N male; 8214/9913/9913F		7.99
34025 Type N male connector for RG-58		11.99
AMPHENOL COAX ADAPTORS (AMP)		
2900 SO-239 to BNC male adaptor	\$	14.99
4400 SO-239 to type N male adaptor		17.99
31-28 BNC female to PL-259 adaptor		19.99
(HOU) SMA-872 SO-239 to SMA plug adaptor		5.99
AIM CONNECTORS, PLUGS & ADAPTORS (AIM)		
25-7365 BNC female to SO-239	\$	3.99
25-7420 BNC male to SO-239		3.99
26-8010 Type N double female		4.99
26-8011 Type N chassis mount		2.99
26-8014 N female to PL-259		4.99
26-8015 N male to SO-239		4.99

Comet - continued		AES Price
26-8016 BNC female to N male		6.99
26-8017 BNC male to N female		4.99
27-8120 BNC female to PL-259		3.99
27-8130 BNC double male		3.99
27-8140 BNC T; 2 female, 1 male		2.99
27-8150 BNC right angle adapter		3.99
27-8470 Dual BNC chassis mount	D	3.99
29-3855 BNC female to SMA male		4.99
29-4140 SO-239 to mini PL-259		3.99
CPAD-207 Chassis mt SO-239 double female		4.99
CPAD-556M Dual BNC chassis mount		3.99
CPAD-809 BNC female to N male	D	6.99
VANCO MICROPHONE CONNECTORS (VCO)		
CBC-4 4-pin female mic plug	\$	4.99
CBC-5 5-pin female mic plug		3.99
CBC-6 6-pin female mic plug		4.99
(PHI) 61-608B 8-pin female mic plug		4.99
CBC-8P Panel mt 8-pin male		5.99
KENWOOD DIN PLUGS (KEN)		
7-pin DIN plug	\$	4.99
8-pin DIN plug		6.99
13-pin DIN plug		9.99
VANCO Mic Holders/Mini Plugs/Cig Plugs (VCO)		
MH-1 Magnetic mic holder	\$	2.99
MH-2 Regular mic holder		1.49
P-12R 2-contact cigarette plug		2.29
P-12V Cig lighter plug w/leads		2.29
P-35 3.5mm miniature phone plug		.69
P-212 2-outlet cigarette plug adapter		4.99
P-212B Dual cigarette lighter socket adapter		8.99
(DAL) 15-0293 3.5mm mono phone plug	Δ	.19
(HOU) AP-115 3/4" metal stereo plug		1.99
(HOU) AP-135 3.5mm stereo mini phone plug		.69
(HOU) VCC-6B 20 pack of cable clips; RG6/8X	Δ	1.99
Connect Systems (CSY)		
CS-800 Desk duplex interconnect/rpr controller	Δ	\$299.99
CS-900 Desk simplex interconnect	Δ	299.99
CROSS DEVICES (CRS)		
STUF Coax connector waterproofing filler	\$	5.99
CUSHCRAFT (CUS)		
At Cushcraft's request, amateur radio dealers are not authorized warranty depots for Cushcraft Antennas. All warranty issues should be directed to the Technical Support Department/Warranty at Cushcraft (603) 627-7877.		
VHF/UHF FM BEAMS* (Vertical polarization)		
A148-3S 2m, 3 el wideband beam, 7.8db		\$ 77.99
A148-10S 2m, 10 el wideband beam, 13.2db		124.99
A449-6S 440 MHz, 6 el, 3' boom, 10 db		73.99
A449-11S 440 MHz, 11 el, 4.5' boom, 13 db		99.99
*Antennas can be mounted vertically or horizontally!		
2M/440 FM BEAMS* (Vertical polarization)		
A270-6S 2m/440, 3/3 el, 2.8' boom, 7.8 db		\$ 99.99
A270-10S 2m/440, 5/5 el, 6.17' boom, 10 db		129.99
*Antennas can be mounted vertically or horizontally!		
TRI-BAND 6M/2M/440 BEAM		
A6270-13S 6m/2m/440, 3/5/5el, 8.66'bm, 8/10/10db		\$249.99
FM RINGOS - 1/2 Wave Verticals		
AR-10 10m FM Ringo, 17.6', 3db, 1000w		\$ 99.99
AR-6 6m FM Ringo, 10.1', 3db, 1000w		99.99
AR-2 2m FM Ringo, 3.9', 3db, 1000w		59.99
AR-450 440MHz FM Ringo, 1.4', 3db, 500w		45.99
RINGO RANGERS - FM Verticals		
ARX-2 2m FM Ringo Ranger	\$	69.99
ARX-2B 2m FM Ringo Ranger II, 14', 7db, 1000w		84.99
ARX-220B 220 FM Ringo Ranger II, 9.3', 7db, 500w		84.99
ARX-450B 440FM Ringo Ranger II, 4.9', 7db, 500w		84.99
DUAL-BAND 2M/440 FM RINGOS		
AR-270 2m/440MHz FM, 3.75', 3/5.5db, 250w		\$114.99



## Cushcraft - continued AES Price

AR-270B	2m/440 MHz FM, 7.7', 5.5/7.5db, 250w	124.99
<b>TWIST, OSCAR BEAM (Horiz/Vert Polarization)</b>		
A148-20T	2m 20el 10.8' boom 13db twist	\$174.99
<b>BOOMER ANTENNAS</b>		
124WB	2m Boomer, 4 el, 4' boom, 10.2 db	\$109.99
13B2	2m Boomer, 13 el, 15' boom, 14.2 db	199.99
17B2	2m Boomer, 17 el, 31' boom, 18 db	299.99
26B2	2 13B2s vertically stacked	499.99
224WB	220 Boomer, 4 el, 3' boom, 10.2db	96.99
719B	432 19 el 13.5' boom 15.5db	189.99

### BOOMER POWER DIVIDERS

PD-2	Power divider for 2 13B2s	\$ 71.99
PD-4	Power divider for 4 13B2s	89.99

### VHF/UHF BEAMS\* (Horizontal polarization)

A50-3S	6m, 3 el, 6' boom, 8 db, stainless hdwre	\$139.99
A50-5S	6m, 5 el, 12' boom, 10 db, stainless hdwre	219.99
A50-6S	6m, 6 el, 20' boom, 11db, stainless hdwre	349.99
A148-10S	2m, 10 el wideband beam	124.99
A430-11S	430 MHz, 11 el, 4' boom, 13 db	99.99

\*Antennas can be mounted vertically or horizontally!

### MONO-BAND MOBILE ANTENNAS

CS-28M	10m magnet mt antenna	\$ 64.99
CS-50M	6m magnet mt 3 db antenna	64.99
CS-147A	2m coil & whip only	44.99
CS-147M	2m magnet mt 3 db antenna	64.99
CS-220M	220 magnet mt 3 db antenna	64.99
CS-450M	440 magnet mt 5 db antenna	64.99

### DUAL-BAND 2M/440 MOBILE ANTENNAS

CS-270A	2m/440 coil & whip only	\$ 64.99
CS-270M	2m/440 3.7/6 db magnet mt ant	89.99

### MOUNTS ONLY FOR MOBILE ANTENNAS

CS-MG	Magnetic mount	\$ 32.99
CS-MGN	Magnetic mount w/N connector	37.99
CS-TL	Trunk lip mount	32.99

### MULTIBAND HF VERTICAL ANTENNAS

MA-5V	20/17/15/12/10m 14.7' vertical ant D	\$239.99
MA-5VA	20/17/15/12/10m 14.7' vertical ant	259.99
MA-6V	20/17/15/12/10/6m 14.7' vertical ant D	299.99
MA-6VA	20/17/15/12/10/6m 14.7' vertical ant	319.99
MA-160V	160m 36' vertical ant w/radials	249.99
MA-8040V	80/40m 22' vertical antenna	259.99
R-6000	20/17/15/12/10/6m 19' vertical	369.99
R-8	40/30/20/17/15/12/10/6m 28.5' vert	539.99
R-8GK	Guy kit for R-8	56.99

### ROTATABLE HF DIPOLES

D-3	20/15/10m World Ranger rotatable dipole	\$299.99
D-3W	30/17/12m rotatable dipole	299.99
D-4	40/20/15/10m World Ranger rotatable dipole	419.99
D-40	40m World Ranger rotatable dipole	369.99

### BIG THUNDER HF TRI-BAND BEAM

X-7	20/15/10m, 7 el, 18' boom, 12.5/13db	\$799.99
X-740	40m add-on kit for X-7	349.99

### BIG THUNDER HF MONOBAND BEAM

XM-240	40m, 2 el, 22' boom, 7 db	\$829.99
TEN-3	10m, 3 el, 8' boom, 8 db	249.99

### MULTIBAND HF BEAM ANTENNAS

A-3S	20/15/10m, 3el, 14'bm, 8db, stainless hdwr	\$549.99
A-743	40m or 30m add-on kit; A-3/A-3S	199.99
A-4S	20/15/10m, 4el, 18'bm, 8.9db, stainless hdwre	649.99
A-744	40m or 30m add-on kit; A-4/A-4S	199.99
A-3WS	17 & 12m, 3 el, 14' boom, 8 db	429.99
A-103	30m add-on kit for A-3WS	199.99
ASL-2010	13.5-32MHz 8el 18' bm 6.4db LP	899.99
MA-5B	20/17/15/12/10m 7.3' boom mini beam	399.99

### LIGHTNING ARRESTORS

LAC-4	200w SO-239 gas tube arrestor	\$ 64.99
LAC-4H	2kw SO-239 gas tube arrestor	70.99
LAC-4N	200w type N gas tube arrestor	79.99

## Cushcraft - continued AES Price

LAC-4NH	2kw type N gas tube arrestor	84.99
LC-2	Extra 200w cartridge for LAC-4/4N	19.99
LC-2KW	Extra 2kw cartridge for LAC-4H/4NH	22.99
5VB	Vinyl connector boots	pack of 5 15.99

## DCI (DCI)

145-2H	2m 144-146MHz 200w bandpass filter	\$169.99
146-4H	2m 144-148MHz 200w bandpass filter	169.99
223.5-3H	222-225MHz 200w bandpass filter	169.99
2m/220 models w/N connectors add \$10 special order		
435-10C	430-440MHz 200w N bandpass filt	189.99
445-10C	440-450MHz 200w N bandpass filt	189.99
146/444-DB	144-148/438-450 200w bp filter	239.99

## DAIWA (DAI)

CN-101	1.8-150 15/150/1.5kw SWR/pwr meter/light	\$ 99.99
CN-103M	140-525 20/200w SWR/power meter	99.99
CN-103N	140-525 20/200w N SWR/pwr meter	109.99
CN-801HP	1.8-200 20/200/2kw SWR/PEP pwr	159.99
CN-801SI	900-2.5GHz 200mw/2/20w N SWR/pwr	269.99
CN-801V	140-525 20/200w SWR/power meter	154.99
CS-201	2-position 600MHz coax switch	32.99
CS-201GI	2-position 2GHz N coax switch	44.99
SS-330W	Variable 30A switch ps/fan/meters	169.99
SS-505	Variable 50A switch ps/fan/meter/3-outputs	399.99

## DAVIS (DAV)

6152	Wireless Vantage Pro2 weather station	\$539.99
7400	Perception II indoor weather unit	134.99
7425	Wizard III weather station	179.99
7440	Monitor II weather station	249.99
7852	Rain Collector II, 0.01"	69.99
7859	External temp/humd Sensor II; 7440 D	79.99
7866	Weatherlink Mac interface/software	29.99
7870	Model adapter for 7862/7866	.19
7867	Weatherlink Mac to Win conv kit	.19
7868	Weatherlink Win to Mac conv kit	.19
7873	Cig lighter power cord	4.99
7876-040	4-conductor 40' extension cbl	6.99
7878-040	6-conductor 40' extension cbl	9.99
7881	8-conductor 50' junction box cable	9.99
7882	8-conductor 100' junction box cbl	24.99
7890	Mast mount for anemometer	4.99
0131	Weather forecasting quick reference card	9.99
0276	WindScribe electronic wind/temp indicator	99.99
0281	Wind Wizard handheld wind indicator	49.99

## DIAMOND (DIA)

### SWR/POWER METERS

SX-20C	HF/6m/2m 30/300w meter	\$ 89.99
SX-40C	144-470 (220 w/correction) 15/150w	79.99
SX-100	1.6-60 MHz 30/300/3kw PEP meter	134.99
SX-200	1.8-200 MHz 5/20/200w PEP meter	94.99
SX-400	140-525 MHz 5/20/200w PEP meter	114.99
SX-600	Dual band 1.8-160/140-525 200w PEP mtr	169.99
SX-1000	1.8-160/430-1300MHz 200w PEP meter	214.99

### HT & HANDHELD SCANNER ANTENNAS

MAY-1000	2el 120-500MHz handheld beam	\$ 99.99
RH-3	2m/440 1.75" BNC mini HT duck	24.99
RH-77CA	2m/440 15" BNC rubber gain ant	24.99
RH-205	2m 3/4 wave 47.5" BNC telescopic ant	24.99
RH-519	2m/440 8" BNC flexible whip	24.99
RH-707	2m/440 8 1/2" BNC tiltable whip	33.99
RH-789	93-1100MHz adjustable freq BNC ant	34.99
RH-951S	2m/440/1.2GHz 14" BNC slim duck	44.99
RHF-40	2m/440 15" BNC flexible rubber gain ant	29.99
SRH-77CA	2m/440 15" SMA rubber gain ant	24.99
SRH-320A	2m/220/440 13.75" SMA flex whip	49.99
SRH-519	2m/440 8" SMA flexible whip	27.99
SRH-789	93-1100MHz adjustable freq SMA ant	34.99
SRH-805	2m/440/1.2GHz 1.75" SMA ant	27.99
SRH-815	2m/440/1.2GHz 6" SMA flex whip	31.99

## Diamond - continued AES Price

SRH-940	6m/2m/440 18" SMA flexible whip	34.99
SRH-999	6m/2m/440/1.2GHz 20" SMA flex whip	59.99
SRHF-40	2m/440 15" SMA flexible rubber gain ant	29.99

### MONO-BAND MOBILE ANTENNAS

HF-6FX	6m 2.15db 44" mobile antenna	\$ 69.99
HF-50CX	6m 3.5db 71" mobile antenna	99.99
M-285	2m 3.4db 52.4" mobile antenna	31.99
M-285NMO	2m 3.4db 52.4" NMO mobile ant	31.99
M-685	6m 2.15db 52.4" mobile antenna	31.99
M-685NMO	6m 2.15db 52.4" NMO mobile ant	31.99
MG-200	2.4GHz 7db 23.6" N mobile ant	79.99
NR-22L	2m 6.5db 96.8" mobile antenna	69.99
NR-124NMO	1.2GHz 8.4db 25" NMO antenna	64.99
NR-140BNMO	Black 220 4db 37" NMO ant	53.99
SG-2000HD	2m 5.2db 62.6" 250w mob ant	89.99

### DUAL-BAND MOBILE ANTENNAS

CR-270A	2m/440 2.15/3.4db 17.2" mobile ant	\$ 42.99
MR-77	2m/440 2.15/3.4db 20" magnetic ant	39.99
MR-77SMA	2m/440 2.15/3.4db 20" mag w/SMA	44.99
NR-72BNMO	Black 2m/440 2.15db 14" NMO	44.99
NR-73BNMO	Blk 2m/440 2.15/5.5db 34" NMO	57.99
NR-770HA	2m/440 3/5.5db 40" mobile ant	56.99
NR-770HB	Black 2m/440 3/5.5db 40" mobile	59.99
NR-770HNMO	2m/440 3/5.5db 40" NMO mobile	56.99
NR-770HBNMO	Blk 2m/440 3/5.5db 40" NMO	59.99
NR-770HRKS	2m/440 3/5.5db 40" adhesive mt	109.99
NR-7900A	2m/440 3.7/6.4db 57" hi pwr mob ant	84.99
SG-M510	2m/440 2.15/5.5db 37" mob ant	59.99
SG-7000A	2m/440 2.15/3.8db 19" mobile	69.99
SG-7500A	2m/440 3.5/6db 41" mobile	77.99
SG-7500NMO	2m/440 3.5/6db 41" NMO ant	79.99
SG-7900A	2m/440 5/7.6db 62" mobile ant	109.99
SG-7900ANMO	2m/440 5/7.6db 62" NMO ant	114.99
K-400CNMO	Hatch/tnk mt/coax; SG7900ANMO	69.99

### TRI-BAND MOBILE ANTENNAS

CR-320A	2m/220/440 2.15/3.8/5.5db 36" ....	\$ 89.99
CR-320BNMO	Black 2m/220/440 36" NMO ant	89.99
CR-627B	6m/2m/440 2.15/4.5/7.2db 60" ant	99.99
CR-627BNMO	6m/2m/440 2.15/4.5/7.2db 60"	99.99
HV-7A	10/6/2m/440 54" UHF mount mobile ant	109.99
HVC-7	40m loading coil for HV-7A/MV-3A	44.99
HVC-14	20m loading coil for HV-7A/MV-3A	37.99
HVC-18	17m loading coil for HV-7A/MV-3A	37.99
HVC-21	15m loading coil for HV-7A/MV-3A	37.99
NR-2000NA	2m/440/1.2 15/6.3/9.7db 39" N mob	89.99
SG-M911	6m/2m/440 2.15/3/5.8db 41" mob	69.99

### QUAD-BAND MOBILE ANTENNAS

CR-8900A	10m/6m/2m/440 0.0/2.15/5.5db 50"	\$ 99.99
D-220	2m/440/900/1.2G 35.5" mobile discone	109.99

### ADHESIVE BACKED MOBILE MOUNT

HRKS	SO239 mt/13' coax/SMA/PL259 adapter	\$ 69.99
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### MAGNET MOUNTS

DPK-4NM-N	Hvy dty mag mt, cbl, N, 45" max	\$ 54.99
K-702M	Hvy dty mag mt, 6 1/2" dia, 50" max	49.99
SPM-35	Hvy dty mag mt, cable, 45" max	39.99
SPM-NMO	Hvy dty NMO mag mt, cbl, 45" max	49.99

### TRUNK LIP MOUNTING KITS

K-400	Hatch/trunk mt; NR/SG antennas	\$ 39.99
K-400C	Hatch/trunk mt w/coax; UHF mount	73.99
K-400CNMO	Hatch/trunk mt w/coax; NMO mt	73.99
K-400S	Hatch/trunk mt w/coax; UHF mt/SMA	79.99
K-400SNMO	Hatch/trunk mt w/coax; NMO/SMA	79.99
K-400/3/8C	Trunk mount w/6.5" cable; 3/8-24	73.99
K-412C	Light duty hatch/tnk mt w/coax; UHF mt	64.99
K-412CNMO	Light duty hatch/tnk mt w/coax; NMO	64.99
K-412S	Light duty hatch/tnk mt w/coax; UHF/SMA	69.99
K-412SNMO	Lt duty hatch/tnk mt/coax; NMO/SMA	69.99
C-110	10' extension cable for K-412 mts	19.99
K-600M	Tilt angle SO-239 trunk mt w/cable	57.99
K-600S	Tilt angle SO-239 tnk mt w/cable/SMA	62.99



# Diamond - continued AES Price

K-601M	SO-239 hideaway trunk mt, 6' coax	D	59.99
K-601NMO	NMO hideaway trunk mt, 6' coax	D	69.99
C-110	10' extension cable for K-601 mts	..	19.99
K-604M	Tilt angle trunk mt w/flexible cable	D	19.99
K-9000LRM	Motorized luggage rack mount	..	109.99
K-9000LRMO	Motor lug rack mt; o/s hardware	..	109.99
K-9000TM	Motorized trunk/hatchback mt	.....	109.99

# MIRROR & LUGGAGE RACK MOUNTS & KITS

K-515S	Lug rack SO-239 mt; new type SUV/SMA	\$	69.99
K-515SNMO	Lug rack NMO mt; new type SUV/SMA		69.99
K-540	Mirror/luggage rack mt; under 45"	.....	35.99
K-540KM	Mirror/luggage rack mt w/coax	.....	59.99
K-550*	Luggage mt; new mini vans (use GLP)	.....	44.99
K-550KM*	Luggage mt w/SO-239 base/coax	.....	69.99

\*K-550 series not recommended for Yae ATAS-100/120

# MOUNTING GROUP HARDWARE

BNCJ-SMAP	Low prof blk BNC-F to SMA-M adapt	\$	9.99
C-101	SO-239 mt, 6.5' RG-316 low-loss coax		37.99
C-101-3/8C	Extra cable assembly; K400-3/8C		34.99
C-101-3/8C-KIT	Upgrades any K400 to K400-3/8C		44.99
C-101NMO	NMO mt, 6.5' RG-316 low-loss coax		37.99
C-104SMA	4' RG-58 ext cbl; SMA male & SO-239		16.99
C-105SMA	5' RG-58 ext cable; C-101/SMA male		16.99
C-110	10' ext cable; C-101/K-601/K-400-3/8C		19.99
C-110BNC	10' extension cable to BNC male	..	29.99
C-110SMA	10' RG-58 ext cable; C-101/SMA male	.....	29.99
C-211	SO-239 mt, 6.5' coax, 10' coax ext	.....	49.99
C-213	SO-239 mt, 13.5' RG-316 low-loss coax	.....	44.99
C-213NMO	NMO mt, 13.5' RG-316 low-loss coax	.....	44.99
CRM	Stainless steel right angle bracket w/U-bolts		16.99
NMO/UHF	NMO to UHF adapter	.....D	12.99
NMO/UHF-B	Black NMO to UHF adapter	.....	14.99

# MONO-BAND BASE STATION ANTENNAS

A-144S5	2m 5 el 37.5" boom 9db beam	.....	\$ 59.99
KB-144	Side mounting bracket/hardware	..	24.99
A-430S10	430 10 el 43" boom 13db beam	.....	69.99
KB-430	Side mounting bracket/hardware	..	22.99
A-430S15	430 15 el 89" boom 14.8db beam	.....	89.99
A-502HB	6m 2 el 2.6' boom 6.3db beam	.....	99.99
BC-200	430-490MHz tunable 6.5db 5.6' base	.....	99.99
CP-22E	2m 6.5db 9' base antenna	.....	54.99
DP-GH62	6m 6db 21' base antenna	.....	149.99
F-22A	2m 6.7db 10.5' base antenna	.....	99.99
F-23A	2m 7.8db 15' base antenna	.....	129.99
F-718A	440 11.5db 15' type N base antenna	.....	199.99
F-1230AII	1.2GHz 13.1db 12' N base ant	.....	179.99
G-200	2.4GHz 11db 6' N base antenna	.....Δ	169.99
2400-Y12	2.4GHz 12db 8el 15"bm 25w N beam	Δ	99.99

# DUAL-BAND BASE STATION ANTENNAS

U-200	440/1.2GHz 8.3/11.7db 6' N base ant	D	\$ 99.99
X-30A	2m/440 3/5.5db 4.5' base antenna	....	69.99
X-50A	2m/440 4.5/7.2db 5.6' base antenna	....	99.99
X-50NA	2m/440 4.5/7.2db 5.6' base N ant	....	104.99
X-200A	2m/440 6/8db 8.3' base antenna	.....	124.99
X-300A	2m/440 6.5/9db 10' base antenna	....	134.99
X-300NA	2m/440 6.5/9db 10' base N ant	.....	149.99
X-510HDM	2m/440 8.3/11.7db 17.2' hi pwr ant	.....	219.99
X-500HNA	Hvy duty 2m/440 8.3/11.7db 17.8' N ant	.....	289.99
X-510MA	2m/440 8.3/11.7db 17.2' base ant	.....	199.99
X-510NA	2m/440 8.3/11.7db 17.2' type N ant	.....	199.99
X-510NJ	143.5-146.5/428-442 8.3/11.7db 17.2' N	.....	199.99
X-700HNA	2m/440 9.3/13db 24' type N ant	.....	389.99

# TRI-BAND BASE STATION ANTENNAS

D-130J	50-1300 MHz 200w discone antenna	\$	99.99
D-130NJ	50-1300 MHz 200w N discone ant	..	99.99
V-2000A	52-54MHz/2m/440 2.1/6.2/8.4db 8.3'	.....	164.99
X-3200A	2m/220/440 6.7/8.8db 10' base	.....	169.99
X-6000A	2m/440/1.2 6.5/9/10db 10.5' N	.....	199.99
BB-7V	2-30MHz 22' no radial vertical (use tuner)	.....	399.99
CP-725H	40/15/10/6m 11.67' trap vert/radials	.....	399.99

# Diamond - continued AES Price

## DUPLEXERS & TRIPLEXERS

MX-37	440/1200MHz N/N duplexer w/cable	..	\$ 59.99
MX-62M	HF-6m & 2m/440, 12" cables dplx	..	74.99
MX-72A	HF-2m/440 dplx/440 N female, 12" cbls	.....	54.99
MX-72D	HF-2m/440 400/150/100w duplexer	.....	48.99
MX-72H	HF-2m/440 duplexer w/12" cables	..	54.99
MX-72N	HF-2m/440 dplx, 440 type N male, 12" cbls	.....	49.99
MX-214D	2m/220 150/100w dplx, no cables	D	49.99
MX-324	2m/220/440 triplexer	.....	89.99
MX-324D	2m/220/440 triplexer, no cables	..D	79.99
MX-610	HF-6m duplexer; IC-706/FT-100	.....	69.99
MX-2000	HF-6m/2m/440 400/400/250w triplexer	.....	89.99
MX-3000	HF-2m/440/1.2 400/200/100w triplexer	.....	79.99
MX-3000N	HF-2m/440/1.2 400/200/100w N triplexer	.....	85.99

## ACCESSORIES

CA-23RP	2500MHz 200w N-F/N lightning protect	\$	41.99
CA-23RS	2500MHz 200w N lightning protector	.....	39.99
CA-23RW	2500MHz 200w N waterproof protector	.....	44.99
CA-35R/RS	1000MHz 400w lightning protector	.....	29.99
CA-35RPW	1000MHz 400w waterproof protector	.....	39.99
CX-210A	1.5kw DC-1000MHz coax switch	....	44.99
CX-210N	1.5kw DC-1500MHz N coax switch	..	74.99
CX-310A	HD 3-pos DC-800MHz coax switch	.....	83.99
DL-30A	15/100w peak 0-500MHz dummy load	.....	39.99
DL-30N	15/100w peak 0-500MHz N dummy load	.....	39.99
GZV-4000	Variable 40A switching ps/meter/spkr	.....	179.99
PC-3	10' DC cable w/T-connector for mob rig	.....	11.99

## DYNAMITE (DYN)

1000	Dyna-Sport 1500mah 6-cell flat nicad	Δ	\$ 4.99
1145	Dyna-Fun 2000mah 6-cell nicad	.....Δ	6.99
4010	Mega 1 AC/DC quick charger	.....Δ	6.99
4046	Vision Peak Plus AC/DC peak charger	Δ	29.99

## ECG (ECG)

U-105	Light duty antenna rotor/3-wire	.....	\$ 69.99
U-106	Light duty ant rotor/presets/IR rem/3-wire	.....	89.99
TB-105	Thrust bearing for U-105/U-106	...	18.99

## ESP (ESP)

ESP-1	Microphone audio processor	.....	\$225.99
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## EASY-UP (UPS OK) (EAS)

EZ 5-16	5' 16 ga steel mast	.....pick-up only	\$ 12.99
EZ 29-24S	Stainless double strap chimney mt	.....	22.99
EZ 30-24	Dlx wall mt w/extra 3rd leg support	.....	29.99
EZ 31	Heavy duty adjustable eave mount	.....	29.99
EZ 48-3ABX	3' boxed tripod w/pitch pad kit	..	39.99
EZ 48-5ABX	5' boxed tripod w/pitch pad kit	..	59.99

## ELK Antennas (ELK)

2M/440-L5	2m/440 5el quick assembly LP beam	\$	98.99
220-L6	220 6el quick assembly LP beam	.....	89.99
440-L8	440 8el quick assembly LP beam	.....	89.99
Elk Bag	Canvas carrying bag for Elk antenna	...	24.99

## EXCALIBUR (EXC)

908	Talking electronic chess computer	.....	\$ 59.99
H-423	Small Forever Flashlight (clear case)	Δ	19.99

## GAP VERTICALS (GAP)

DX-VIII	Challenger 75*/40/20/15/12/10/6/2m 31.5'	\$339.99	
	*80m CW w/capacitor exchange from GAP		
	Challenger Counterpoise	.....	39.99
	(SYN) 100' 1/2" black double braided rope	..	9.99
DX-VI	Eagle 40/20/17/15/12/10m 21' rigid	.....	369.99
DX-IV	Voyager 160/80/40/20m 45'; use 350' guy	.....	449.99
	Voyager Counterpoise	.....	75.99
	(SYN) 350' 3/8" black double braided rope	..	49.99
Titan DX	75*/40/30/20/17/15/12/10m, 25'	.....	399.99
	*80m CW w/capacitor exchange from GAP		
100'	Guy Kit with clamp	.....	17.99
200'	Guy Kit with clamp	.....	26.99

# Gap - continued AES Price

Ground Mount	Quick tilt mt for vertical ant	..	89.99
Ladder Mount	Quick tilt mt; campers/RVs	....	89.99
Hear It	DSP noise eliminating speaker	.....	169.99
In Line Module	Hear It DSP in line noise elim	.....	219.99

## GARMIN (GAR)

Geko-101	Small GPS receiver	.....D	\$ 69.99
Geko-201	Small GPS receiver w/WAAS	.....Δ	99.99

GPS-12XL	GPS receiver	.....D	129.99
GPS-72	Handheld track-plotter GPS	.....	129.99

GA-27C	Low prof rem ant/cbl; GPS-12CX/XL	.....	89.99
010-10048-00	Mounting bkt; 12CX/XL	Δ	9.99
010-10082-00	Power/data cable	.....	27.99
010-10085-00	Cig lighter adapter cable	...	23.99
010-10117-01	Carrying case	.....D	.99
010-10117-02	Carrying case	.....	12.99
010-10141-00	PC interface cable	.....	38.99
010-10165-00	PC cable w/cig adapter	.....	45.99
GPS-60	GPS w/1MB internal memory	.....	159.99
GPS-MAP60	GPS w/24MB internal memory	...	219.99
010-10117-02	Carrying case	.....	12.99
010-10199-03	Carrying case; Street Pilot	..D	1.99
010-10227-00	Blank 8MB mem cartridge	..D	6.99
010-10232-00	Carrying case; Street Pilot	..D	1.99
010-10468-00	MapSource MetroGuide CD	Δ	59.99
GA-26C	Low profile remote ant w/cbl/BNC	Δ	79.99

StreetPilot 2610	Deluxe GPS	.....D	499.99
GA-27C	Low profile remote ant/cable/MCX	.....	89.99
StreetPilot C330	Deluxe GPS w/software	.....D	299.99
GA-27C	Low profile remote ant/cable/MCX	.....	89.99
eTrex	12 ch mini GPS receiver	.....D	89.99
eTrex Summit	12ch mini GPS/compass/baro	D	129.99
010-10203-00	Cig cbl; eMAP & eTrex	Δ	24.99
010-10205-00	Data cable; eMAP/eTrex	Δ	14.99
010-10206-00	PC interface cbl; eMAP/eTrex	Δ	24.99
cfQue-1620	GPS module for Pocket PC's	.....D	149.99
Foretrex 101	Wrist GPS	.....	129.99
Forerunner 201	Wrist GPS/personal trainer	...	149.99
GPS-18PC Dlx	GPS sensor for laptop/serial/mag/soft	.....	129.99
GPS-18USB Dlx	GPS sensor for laptop/USB/mag/soft	.....	129.99
iQue-3600	Handheld PDA w/integrated GPS	D	369.99
GA-27C	Low prof remote ant/cbl; iQue-3600	.....	89.99
Rino-120	GPS/PRS/GMRS w/8mb mem/basemap	Δ	199.99
010-10117-02	Carrying case; Rino-120	.....	12.99

## GEAR KEEPER (GEA)

RT2-4012	Hvy duty Mic Keeper w/snap clip	..	\$ 19.99
RT3-4653	Locking HT Gear Keeper/swivel belt clip	.....	24.99

## GLEN MARTIN (GME)

M-13A	13" wide alum 10' tower section	.....T	\$268.99
CHB-13	Footing assembly for M-13	.....	129.99
CM-1300	Center mount for M-13	.....	39.99
FB-13	Fixed base for M-13	.....	134.99
HB-13	Hinge base for M-13	.....	198.99
H-5	Aluminum Hazer system for M-13	.....	447.99
M-18A	18" wide alum 10' tower section	.....T	314.99
CHB-18	Footing assembly for M-18	.....	142.99
FB-18	Fixed base for M-18	.....	173.99
HB-18	Hinge base for M-18	.....	299.99
H-6	Aluminum Hazer system for M-18	.....	487.99

## TOWER PACKAGES

M-1330A	30' alum tower package w/Hazer	..T	1864.99
M-1340A	40' alum tower package w/Hazer	..T	2106.99
M-1350A	50' alum tower package w/Hazer	..T	2349.99
M-1840A	40' alum tower package w/Hazer	..T	2415.99
M-1850A	50' alum tower package w/Hazer	..T	2699.99
KB-1000	57" side arm; M-13 series	.....	94.99
KB-1300	57" side arm; M-18 series	.....	97.99
ML-1800	Messenger line kit for GME towers	..	83.99





## Glen Martin - continued AES Price

### ROOF-TOP TOWERS

RT-424	4.5' roof-top tower, anodized aluminum	\$189.99
RT-832	8' roof-top tower, anodized aluminum	279.99
RT-936	9' roof-top tower, anodized aluminum	459.99
RT-1832	17.5' roof-top tower, anodized aluminum	614.99
RT-2632	26' roof-top tower, anodized aluminum	999.99
EL-3744	Concrete L-bolts, set of 8	17.99
LB-3755	Lag bolts, set of 8 (3/4" x 5")	11.99
MC-10	Mast clamp; aluminum, 2 required	28.99
RA-6024	24" side arm for roof towers	48.99
RA-6048	48" side arm for roof towers	64.99
RT-5505	Rubber mat, 18" x 48"	32.99
RT-8900	Non-penetrating roof mount base	524.99
TB-25	Premium thrust bearing	64.99

### HAZERS FOR ROHN TOWERS

H-2	Heavy duty aluminum Hazer system	\$416.99
H-3	Standard duty aluminum Hazer system	316.99
H-4	Heavy duty galv steel Hazer system	399.99
BW-8001	Brake winch for H-2/3/4	93.99
HR-2040	Roller bearing set for Hazers	72.99
HR-6010	TX plates for H-2/3/4/5	30.99
HS-1301	36" side arm for Hazers	74.99
ML-2500	Messenger line kit for Rohn towers	89.99

### LIGHTNING PROTECTION

LR-8400	Premium lightning rod kit	\$114.99
GR-4400	Ground rod wire clamp	8.99
GR-5080	8' x 5/8" ground rod	23.99
LR-8418	Lightning rod point, 1/2" x 18"	45.99
LR-8451	Clamp for holding rod to 1 1/2" mast	28.99
LR-8452	Clamp for holding rod to 2" mast	29.99
TL-0470	Terminal lug	2.99

### MASTS

M-1040	10' x 2" OD heavy duty galv steel mast	\$ 92.99
M-1049	9' x 2" OD heavy duty galv steel mast	87.99
MA-1040	10' x 1.92" OD medium duty alum mast	103.99
MA-1049	9' x 1.92" OD medium duty alum mast	98.99
MA-1050	5' x 2" OD medium duty alum mast	67.99
MA-2010	10' x 2.375" OD heavy duty alum mast	120.99
MA-2069	9' x 2.375" OD heavy duty alum mast	109.99
MA-5050	5' x 1.31" OD light duty alum mast	45.99
MP-1409	9' heavy duty fiberglass mast	142.99

### TOWER CLIMBING EQUIPMENT

FP-56222	MB/LC/2-D/B-C/S-L harness	\$ 85.99
FP-56224	MB/LC/2-D/B-C/L-XL harness	85.99
FP-56422	MB/LC/4-D/B-H-C/S-L harness	99.99
FP-56424	MB/LC/4-D/B-H-C/L-XL harness	99.99
FP-66611	TB/LC/6-D/B-H-C-SD/S harness	246.99
FP-66612	TB/LC/6-D/B-H-C-SD/M harness	246.99
FP-66613	TB/LC/6-D/B-H-C-SD/L harness	246.99
FP-66614	TB/LC/6-D/B-H-C-SD/XL harness	246.99
FP-75421	TB/LC/4-D/B-H-C/S harness	173.99
FP-75422	TB/LC/4-D/B-H-C/M harness	173.99
FP-75423	TB/LC/4-D/B-H-C/L harness	173.99
FP-75424	TB/LC/4-D/B-H-C/XL harness	173.99
FP-26004	1" x 4' web lanyard	26.99
FP-26006	1" x 6' web lanyard	26.99
FP-29002	1" x 2' Centurion lanyard	34.99
FP-29003	1" x 3' Centurion lanyard	35.99
FP-29004	1" x 4' Centurion lanyard	36.99
FP-29006	1" x 6' Centurion lanyard	36.99

All GLEN MARTIN orders are plus freight at Glen Martin's rates direct to you from the factory. You can obtain shipping charges from any AES salesperson by phone or email. There is a \$10 surcharge on all Glen Martin orders under \$120. There is also a \$75 residential address delivery charge on M-13 & M-18 series towers. We prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your order. Please allow sufficient delivery time. Most truck lines will not unload towers, so please be sure to have enough manpower and/or equipment on hand.

## AES Price

## GROTHE (GRO)

VS-2	Emergency vehicle siren	\$ 89.99
VS-2LS/A	Window mt siren/amber halogen spec ord	299.99
VS-2LS/B	Window mt siren/blue halogen spec ord	299.99
VS-2LS/R	Window mt siren/red halogen spec ord	299.99
VS-3	Volunteer vehicle PA/horn w/spkr	129.99
VS-4	P/A emergency vehicle siren w/spkr	139.99

## GRUNDIG/ETON (GRU)

E-1	Portable AM/FM/SW/XM* ready rcvr/ps	\$499.99
*Subscription, tuner & ant required for XM satellite		
(AUD) CNP-1000	Integrated XM tuner/ant	39.99
(AUD) CNP-2000	XM tuner cartridge	29.99
(AUD) CNP-2000H	XM home dock/antenna	29.99
E-10	Portable AM/FM/SW receiver w/ps	99.99
E-100	Portable AM/FM/SW receiver	99.99
FR-100	AM/FM/clock/emergency light	14.99
FR-200	AM/FM/SW/flashlight/crank	39.99
FR-250	AM/FM/SW/flashlight/crank/cell cgr	49.99
FR-300	AM/FM/WX/TV sound/flashlight/cell cgr	49.99
FR-400	AM/FM/WX/TV sound/flashlight/cell cgr	59.99
G-5	Portable AM/FM/SW receiver w/ps	149.99
G-1100	Pocket AM/FM/SW receiver	49.99
G-2000A	Porsche design AM/FM/SW Rcvr	49.99
GM-300PE	Gray mini AM/FM/SW receiver	29.99
GS-350DL	Black portable AM/FM/SW Rcvr w/ps	99.99
S-350DL	Black portable AM/FM/SW Rcvr w/ps	99.99

## HAL (HAL)

RTTY-1	RTTY tuning indicator	\$ 89.99
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## HARGER (HRG)

GBIS18114AE	3/8" copper entrance ground bar kit	\$ 39.99
GBIS18148AE	1/2" copper station ground bar kit	83.99
GEL3AE	Package of 5 HD grounding lugs	26.99
GP1868.78AE	3/8" copper single pt gnd panel kit	76.99
GBX976AE	NEMA-4x weatherproof enclosure	127.99

## HEIL (HEI)

BM-5-4	Boom mic/single headset (HC-4)	\$ 69.99
BM-5-IC	Boom mic/sgl headset/adaptor; lcom	79.99
BM-10-4	Boom mic/headset (HC-4)	110.99
BM-10-5	Boom mic/headset (HC-5)	110.99
BM-10-IC	Boom mic/headset/adaptor; lcom	130.99
BAG-2	Leatherette travel bag for BM-10	20.99
PRO-SET-4	Deluxe boom mic/headset (HC-4)	140.99
PRO-SET-5	Deluxe boom mic/headset (HC-5)	140.99
PRO-SET-IC	Dlx boom mic/headset/adaptor; lcom	150.99
PRO-SET-PLUS	Dlx boom mic/headset (HC4&5)	215.99
PRO-SET-PLUS-IC	Dlx bm mic/hdset (HC4&5); lco	235.99
PSQP-4	Pro-Set Quiet Phone 4 boom mic/headph	230.99
PSQP-5	Pro-Set Quiet Phone 5 boom mic/headph	230.99
PSQP-IC	Pro-Set Quiet Phone; lcom bm mic/headph	250.99
AD-1-I	Pro-Set 8-pin adaptor cord for lcom	20.99
AD-1-IC	Pro-Set 8-pin adaptor cord; lcom	20.99
AD-1-ICM	ProSet modular adaptor cord; lco	20.99
AD-1-IM	Pro-Set modular adaptor cord; lco	20.99
AD-1-K	Pro-Set 8-pin adapt cord; Kenwood	20.99
AD-1-K-M	Pro-Set modular adapt cord; Ken	20.99
AD-1-T	Pro-Set 4-pin adapt cord; Ten-Tec	20.99
AD-1-Y	Pro-Set 8-pin adaptor cord; Yaesu	20.99
AD-1-Y-M	Pro-Set modular adapt cord; Yae	20.99
HTSS	Single side Traveler headset	75.99
HTDS	Dual side Traveler headset	95.99
HSTA-IC8	Traveler adapter for lcom 8-pin	23.99
HSTA-IM	Traveler adapter; lcom modular	23.99
HSTA-K8	Traveler adapter for Kenwood 8-pin	23.99
HSTA-KM	Traveler adapter; Kenwood modular	23.99
HSTA-YM	Traveler adapter for Yaesu modular	23.99
HTA-IHT	Traveler adapter for lcom HT	23.99
HTA-KHT	Traveler adapter for Kenwood HT	23.99
HTA-VX	Traveler adapter; Yaesu VX HT (not VX7)	23.99

## Heil - continued

## AES Price

GM-4	Goldline dual element studio mic w/HC-4	145.99
GM-5	Goldline dual element studio mic w/HC-5	145.99
GM-V	Goldline vintage studio mic/matching xfmr	129.99
HCL-4	Classic 1930's desk mic/studio el & HC-4	229.99
HCL-5	Classic 1930's desk mic/studio el & HC-5	245.99
HM-10-4	Microphone with HC-4 element	69.99
HM-10-Dual	Mic w/HC-4 & HC-5 elements	128.99
ICM	Pre-PRO lcom electret mic w/cable	105.99
CC-1-C	3/8" plug cable for Collins/Drake	41.99
CC-1-I	8-pin cable for lcom	35.99
CC-1-I-M	Modular cable for lcom	35.99
CC-1-K	8-pin cable for Kenwood	35.99
CC-1-K-M	Modular cable for Kenwood	35.99
CC-1-T	4-pin cable for Ten-Tec	35.99
CC-1-Y	8-pin cable for Yaesu	35.99
CC-1-Y-M	Modular cable for Yaesu	35.99
PL-2T	Topless proline boom	109.99
DT-1	Desk top flush mount	31.99
FL-2	Flange mount for PL-2T	25.99
RS-1	Riser 12" flange mount for PL-2T	25.99
SB-2	Small adjustable mic boom	55.99
HM-4	Handi-Mic hand microphone w/HC-4	85.99
HM-5	Handi-Mic hand microphone w/HC-5	85.99
HM-IC	Handi-Mic hand mic/electret element; lco	85.99
HM-PRO	Handi-Mic hand mic/broadcast element	85.99
CH-1-I8	8-pin coiled cable for lcom	23.99
CH-1-I-M	Modular coiled cable for lcom	23.99
CH-1-K8	8-pin coiled cable for Kenwood	23.99
CH-1-K-M	Modular coiled cable for Kenwood	23.99
CH-1-Y-M	Modular coiled cable for Yaesu	23.99
PR-20	Cardioid dynamic studio microphone	150.99
PR-40	Broadcast & recording studio microphone	325.99
CC-1-XLR-I	3-pin XLR to 8-pin lcom cable	35.99
WSPR-40	Windscreen for PR-40	17.99
PR-781	Dynamic cardioid studio mic	179.99
CC-1-XLR-I	3-pin XLR to 8-pin lcom cable	35.99
CC-1-XLR-K	3-pin XLR to 8-pin Kenwood cable	35.99
CC-1-XLR-Y	3-pin XLR to 8-pin Yaesu cable	35.99
WSPR-40	Windscreen	17.99
HQP	Quiet Phone Noise cancelling headphones	99.99
BAG-2	Leatherette travel bag for HQP	20.99
AD-100	Mic/boomset adapt; FT-100/AD-1Y/CC-1Y	20.99
Boom Clip	for BM-series	5.99
CB-1	Classic base	60.99
CB-1-PTT	Classic base w/soft PTT switch	70.99
Ear Pads	for Pro-Set series	6.99
FS-2	Dual switch foot switch	38.99
Ham Radio Handbook		10.00
HC-4	DX'ers 'dream machine' mic element	45.99
HC-5	Full-range microphone element	45.99
HD-AT	6db headph attenuator, 3/8"-3/16" adapt	6.99
HS-2	Magnum ergonomic hand switch	22.99
SM-1	Shock mount for any microphone boom	72.99
TM-1	Tri-mount microphone adapter	14.99
XT-1	Audio matching xfmr; lo-Z mic/tube Xcvr	15.99

## HIGH SIERRA (HIS)

Platinum Pack	3.5-60MHz mobile ant w/6' whip	\$545.00
HS-202CL	2" rcvr lay back adaptor; univ mtg bkt	130.00
HS-214CL	1 1/2" rcvr lay back adapt; univ mtg bkt	130.00
i-Box 7000	Box for IC-7000	110.00
Six Shooter	Large capacity hat	70.00
Sidekick	3.5-60MHz mobile ant w/3' whip	395.00
Hitchin Post	3/8-24 trailer hitch mount	50.00
i-Box 7000	Box for IC-7000	110.00
Six Shooter	Large capacity hat	70.00
Stake Hole Mt	SO-239 to 3/8-24 mount	27.00
Sidekick	w/i-box/i-tenna 3.5-60 mob/3' whip; lco	445.00
Hitchin Post	3/8-24 trailer hitch mount	50.00
Six Shooter	Large capacity hat	70.00
Stake Hole Mt	SO-239 to 3/8-24 mount	27.00
Tripod Deluxe	6' tripod/3/8-24/SO239/8 radials	130.00



## AES Price

### HobbyZone (HBZ)

1011	6v 600mah NiMH battery	Δ	\$ 4.99
1012	7.2v 900mah NiMH;2500/3500/4000	Δ	4.99
1013	8.4v 900mah NiMH;2500/3500/4000	Δ	4.99
1026	DC peak charger	Δ	2.99
2015	3-hr wall charger for 4000	Δ	.99
4020	Sonic combat module; 2500	Δ	2.99
4025	Stealth target/combatt module; 2500/4000	Δ	1.99
6023	Aerial drop module; 2500/4000	Δ	2.99
7809	7.2v 1100mah battery for 7800	Δ	6.99

### House of Deals (HOU)

FL-3077	9 LED/3 AAA flashlight/carrying case	D	\$ 6.99
FL-3232T	32 LED/3 D flashlight		24.99
FL-8211B	11 LED/3 AAA head/bike lamp		9.99
HS-2005A	9 LED/3 AAA flashlight/wrist strap		6.99

### HUSTLER (HUS)

RM-80	80m CW 400w PEP resonator		\$ 30.99
RM-75	75m phone 400w PEP resonator		30.99
RM-60	60m phone 400w PEP resonator		30.99
RM-40	40m 400w PEP resonator		28.99
RM-30	30m 400w PEP resonator		28.99
RM-20	20m 400w PEP resonator		25.99
RM-17	17m 400w PEP resonator		25.99
RM-15	15m 400w PEP resonator		18.99
RM-12	12m 400w PEP resonator		18.99
RM-11	CB 400w PEP resonator		18.99
RM-10	10m 400w PEP resonator		18.99
RM-80S	80m CW 2kw PEP resonator		57.99
RM-75S	75m phone 2kw PEP resonator		57.99
RM-40S	40m 2kw PEP resonator		41.99
RM-20S	20m 2kw PEP resonator		32.99
RM-15S	15m 2kw PEP resonator		28.99
RM-11S	CB 2kw PEP resonator		27.99
RM-10S	10m 2kw PEP resonator		27.99
MO-1	54" mast for fender or deck mount		36.99
MO-2	54" mast for bumper mount		36.99
MO-3	54" no break-over mast		27.99
MO-4	22" mast for special applications		22.99
VP-1	Tri-band adapter		7.99
RSS-2	Resonator spring		13.99
QD-2	Stainless quick disconnect		24.99
L-14-144	12' RG-58, PL-259 to lugs		9.99
L-14-240	20' RG-58, PL-259 to lugs		12.99

### STAINLESS 2" MOBILE BALL MOUNTS

SSM-1	Ball & spring, cadmium hardware		\$ 52.99
SSM-2	Ball, cadmium hardware		32.99
SSM-3	Stainless steel spring		29.99

### 1-1/2" MOBILE BALL MOUNTS

C-32	Chrome plated ball		\$ 18.99
C-30	Chrome plated spring		14.99
C-29	Stainless steel spring		21.99
BM-1	Single strap bumper mt w/C-32		25.99

### 3/8-24 THREAD MOBILE MOUNTS

HLM	Trunk lip mount w/swivel		\$ 25.99
HOT	Hustloff trunk lip mt w/swivel		26.99
MBM	Super magnet mount w/16' coax		22.99
RVM	Recreational vehicle mount		23.99
TLM	Trunk lip mount		25.99

### HF ANTENNAS

4-BTV	40/20/15/10m 21' trap vertical		\$149.99
5-BTV	80/40/20/15/10m 25' trap vertical		179.99
30-MTK	30m trap kit for 4-BTV/5-BTV		47.99
6-BTV	80/40/30/20/15/10m 24' trap vert		199.99

### VHF/UHF BASE STATION ANTENNAS

G3-144	2m 3db 7.5' vertical antenna		\$ 74.99
G6-144B	2m 6db 10' vertical antenna		139.99
G6-270R	2m/440 6db 7.6' base station ant		199.99
G7-144	2m 7db 15' vertical antenna		199.99
G7-220	220 MHz 7db 10' vertical antenna		169.99

## Hustler - continued

G6-440	440 MHz 6db 7' vertical antenna		179.99
<b>VHF/UHF MOBILE ANTENNAS</b>			
BBG-144	2m 3.4db NMO coil/whip only		\$ 49.99
BBGT-144	2m 3.4db NMO trunk lip mt ant		56.99
BBG-440-5	440 5db NMO coil/whip only		49.99
BBGT-440-5	440 5db NMO trunk lip mt ant		49.99
BBL-144A	2m 3/4" hole mt antenna, 3.4db	..D	14.99
CG-144	2m 3/4-24 ant, 7' high, 5.2db		36.99
CGT-144	2m trunk mt ant, 7' high, 5.2db		59.99
CG-220	220 MHz 3/4-24 ant, 5.2db		36.99
CGT-220	220 trunk mt ant, 5.2db		59.99
LMB-144	2m 3.4db black NMO coil/whip only		23.99
LMB-440-5	440 5db black NMO coil/whip only		25.99
LMC-144	2m 3.4db NMO coil/whip only		25.99
LMC-270	2m/440 2.4/4db NMO coil/whip only		34.99
LMC-440-5	440 5db NMO coil/whip only		25.99
LMG-144	2m 3.4db NMO pushpin coil/whip only		27.99
LMG-440-5	440 5db NMO pushpin coil/whip only		24.99
MKR-2	Radial kit for CG/RX/SF-antennas		23.99
MX-2	2m 3.4db black & chrome NMO mag ant		37.99
MX-2B	2m 3.4db all black NMO mag mt ant		42.99
MX-220	220 3.4db blk & chrome NMO mag ant		37.99
MX-270	2m/440 2.4/4db chrome NMO mag mt ant		63.99
MX-440	440 5db blk & chrome NMO mag mt ant		49.99
MX-440B	440 5db all black NMO mag mt ant		49.99
RX-2	2m 3.4db magnetic mount ant		28.99
RX-220	220 3.4db magnetic mt antenna		28.99
RX-440	440 5db magnetic mt antenna		28.99
SF-2	2m 3/4-24 ant, 4' high, 3.4 db		17.99
SF-220	220 MHz 3/4-24 antenna, 3.4 db		17.99
THF	140-500 MHz 1/4 wave trunk mount ant		25.99
UGM	140-500 MHz 1/4 wave BNC mag mt ant		23.99
UHT-1	140-500 MHz 1/4 wave roof mt ant		17.99

### CB & MONITOR ANTENNAS

1C-11	White trunk mount CB antenna		\$ 14.99
1C-11B	Black trunk mt CB antenna		14.99
1C-56	102" stainless whip	.....pick-up only	19.99
1C-100	White magnetic mount CB antenna		23.99
1C-100B	Black magnetic mt CB antenna		23.99
DTG	25" fg double-talk gutter mt CB ant	Δ	9.99
FG-27S	48" CB whip		12.99
HQ-27	Power Packer 3/4-24 CB whip		19.99
HQ-27M	Power Packer trunk mt CB antenna		39.99
HQD	Dual fg mirror mount CB antenna		53.99
HQT	Single fg mirror mount CB antenna		29.99
RQM	Magnetic mount CB antenna		21.99
RTG-27L	25" CB antenna w/rain gutter mt		28.99
RTM	25" magnetic mount CB antenna		18.99
RTS-27L	25" CB antenna w/roof mount		28.99
SCB/BLK	46" black CB whip		37.99
SCB/RED	46" red CB whip		37.99
SCB/WHT	46" white CB whip		37.99
SCB-S/BLK	35" black CB whip		37.99
SCB-S/RED	35" red CB whip		37.99
SCB-S/WHT	35" white CB whip		37.99
DCL-B	Discone monitor ant/50' coax/BNC plug		37.99
DCX	Discone monitor ant; 40-700 MHz		25.99
MOR-B	Roof/deck mt tri-band BNC monitor ant		19.99
MOT-B	Trunk lip mt tri-band BNC monitor ant		21.99
MRM-B	Magnet mt tri-band BNC monitor ant		19.99

## HY-GAIN (HYG)

### HF BEAM ANTENNAS

LJ-103BA	3el 7.9db 8' boom 10m beam		\$159.99
LJ-105CA	5el 10.8db 24' boom 10m beam		289.99
LJ-153BA	3el 7.9db 12' boom 15m beam		199.99
LJ-204BA	4el 8.2db 26' boom 20 or 17m beam		499.99
TH-3JRS	3el 600w PEP 20/15/10m beam		359.99
TH-3MK4	3el 8db 14' boom 20/15/10m beam		469.99
TH-5MK2	5el 8.3db 19' boom 20/15/10m beam		699.99
TH-7DX	7el 8.7db 24' boom 20/15/10m beam		799.99

## AES Price

## Hy-Gain - continued

BN-86	3-30MHz balun for HF beam		79.99
<b>MULTI-BAND HF VERTICAL ANTENNAS</b>			
AV-14AVQ	40/20/15/10m 18' vertical ant		\$169.99
AV-18AVQ II	80/40/20/15/10m vertical ant	..	229.99
AV-18HT	HyTower 80/40/20/15/10m 53' vert T*		949.99
*AV-18HT is drop-shipped (shipped direct to you from the Hy-Gain factory). On these factory drop-shipments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Starkville, Mississippi via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. Please allow sufficient time for delivery on these special order items.			
AV-18HT-JR	HyTower Jr 40/20/15/10m 39' vert		349.99
AV-620	20/17/15/12/10/6m 22.5' vertical	....	299.99
AV-640	40/30/20/17/15/12/10/6m 25.5' vert		399.99
DX-88	80/40/30/20/17/15/12/10m 25' vert	..	369.99
<b>VHF/UHF ANTENNAS</b>			
DB-218SAT	VHF/UHF Oscar Link system		\$529.99
VB-25FM	5el 11.2db 75" boom 2m beam	....	59.99
VB-64DX	4el 10.4db 12' boom 6m beam	....	144.99
<b>ANTENNA ROTORS</b>			
AR-40	3 sq ft antenna rotor/5-wire		\$289.99
CD-45-II	8.5 sq ft antenna rotor/8-wire		389.99
HAM-IV	15 sq ft antenna rotor/8-wire		539.99
HAM-V	Digital 15 sq ft antenna rotor/8-wire		899.99
HDR-300A	Hvy duty dig 25 sq ft rotor/8-wire		1349.99
T-2X	Tailtwister 20 sq ft antenna rotor/8-wire		619.99
T-2XD	Tailtwister dig 20 sq ft ant rotor/8-wire		1029.99
<b>OPTIONAL ACCESSORIES FOR ROTORS</b>			
DCU-1	Dig rotor control; CD-45/HAM-IV/T-2X		\$699.99
MSHD	Lwr mast support; HAM-IV/V/T-2X/XD		99.99
MSLD	Lower mast support; CD-45-II/AR-40		39.99
TSP-1	Tower spacer plate		34.99

### See BELDEN for rotor cable

## iBOTZ (IBO)

MR-1002	Antoid robot kit	Δ	\$ 19.99
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## IBS (IBS)

2008	2008 Passport to Worldband Radio		\$ 22.95
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## ICC (ICC)

Nitelogger II	Automatic tape recorder activator		\$ 69.99
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## ICOM (ICO)

IC-7800*	Dlx 200w HF+6m Xcvr/IF-DSP/tuner/ps		10599.99
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\*Extra \$500 off w/PW-1 same invoice; expires 12/31/07

(BET) I-Mate	Message accessory		74.99
CT-17	CI-V level converter		129.99
HM-36	Scanning hand mic		74.99
SM-20	Deluxe desk microphone		199.99
SP-20	Speaker w/audio filters		239.99
SP-23	Speaker w/audio filters		199.99

IC-756PRO III Xcvr/6m/IF-DSP/tuner/keyer \*2699.99

\*Price after instant coupon; coupon expires 12/31/07

\*Extra \$100 off w/PW-1 same invoice; expires 12/31/07

(BET) I-Mate	Message accessory		74.99
PS-125	25A switching power supply		299.99
AH-4	80-6m 120w auto wire ant tuner		259.99
AH-2B	Whip w/mt; 40-6m use tuner		349.99
AH-2B extra whip only		Δ	99.99
CT-17	CI-V level converter		129.99
HM-36	Scanning hand mic		74.99
OPC-025D	Extra DC cable		29.99
SM-20	Deluxe desk microphone		199.99
SP-20	Speaker w/audio filters		239.99
SP-23	Speaker w/audio filters		199.99
UT-102	Voice synthesizer		74.99



## Icom - continued

## AES Price

<b>IC-746PRO</b> Xcvr/Rcv/6m/2m/IF-DSP/tuner/mic ..	*1499.99
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
<b>*Price after instant coupon; coupon expires 12/31/07</b>	
<b>PS-125 ps FREE with IC-746PRO! thru 12/31/07</b>	
(BET) <b>I-Mate</b> Message accessory .....	74.99
<b>PS-125</b> 25A switching power supply .....	299.99
<b>AH-4</b> 80-6m 120w auto wire ant tuner .....	259.99
<b>AH-2B</b> Whip w/mt; 40-6m use tuner .....	349.99
<b>AH-2B extra whip only</b> .....	99.99
<b>CR-338</b> High stability crystal unit .....	81.99
<b>CT-17</b> CI-V level converter .....	129.99
<b>HM-36</b> Scanning hand mic .....	74.99
<b>OPC-025D</b> Extra DC cable .....	29.99
<b>SM-20</b> Deluxe desk microphone .....	199.99
<b>SP-20</b> Speaker w/audio filters .....	239.99
<b>SP-23</b> Speaker w/audio filters .....	199.99
<b>UT-102</b> Voice synthesizer .....	74.99
<b>IC-718</b> HF Xcvr/SW Rcvr/mic w/DSP .....	*549.99
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
(BET) <b>706 Tune Control</b> for IC-718 .....	32.99
(W4R) <b>0BF-703/718-DIY</b> CW&SB Collins filts Δ	199.99
<b>PS-125</b> 25A switching power supply .....	299.99
<b>AH-4</b> 80-6m 120w auto wire ant tuner .....	259.99
<b>AH-2B</b> Whip w/mt; 40-6m use tuner .....	349.99
<b>AH-2B extra whip only</b> .....	99.99
<b>AT-180</b> Auto coax antenna tuner; HF+6m ..	369.99
<b>OPC-598</b> 23' extension cable; AT-180 ....	73.99
<b>CR-338</b> High stability crystal unit .....	81.99
<b>CT-17</b> CI-V level converter .....	129.99
<b>FL-52A</b> 500 Hz 455 KHz IF CW filter .....	179.99
<b>FL-53A</b> 250 Hz 455 KHz IF CW filter .....	179.99
<b>FL-222</b> 1.9 KHz 455 KHz IF SSB filter .....	199.99
<b>FL-257</b> 3.3 KHz 455 KHz IF SSB filter .....	199.99
Suggest dealer installation of filters in IC-718	
<b>MB-5</b> Mobile mount .....	59.99
<b>MB-23</b> Side mount carrying handle .....	15.99
<b>OPC-025D</b> Extra DC cable .....	29.99
<b>OPC-599</b> 7+8-pin to 13-pin adapter .....	60.99
<b>SM-20</b> Deluxe desk microphone .....	199.99
<b>SP-10</b> Slim-line external speaker .....	69.99
<b>SP-20</b> Speaker w/audio filters .....	239.99
<b>SP-23</b> Speaker w/audio filters .....	199.99
<b>UT-102</b> Voice synthesizer .....	74.99
<b>UT-106</b> Plug-in DSP unit .....	139.99
<b>IC-703</b> Plus 10w mini HF+6m Xcvr/tuner/DSP	*679.99
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
(W4R) <b>0BF-703/718-DIY</b> CW&SB Collins filts Δ	199.99
<b>AH-4</b> 80-6m 120w auto wire ant tuner .....	259.99
<b>AH-2B</b> Whip w/mt; 40-6m use tuner .....	349.99
<b>AH-2B extra whip only</b> .....	99.99
<b>AH-703</b> 40/20/15/10/6m 20w 4.6' antenna	199.99
<b>BC-155A</b> Battery charger for BP-228 .....	29.99
<b>BP-228</b> 9.6v 2800mah external nicad pack	89.99
<b>CT-17</b> CI-V level converter .....	129.99
<b>FL-52A</b> 500 Hz 455 KHz IF CW filter .....	179.99
<b>FL-53A</b> 250 Hz 455 KHz IF CW filter .....	179.99
<b>FL-222</b> 1.9 KHz 455 KHz IF SSB filter .....	199.99
<b>FL-257</b> 3.3 KHz 455 KHz IF SSB filter .....	199.99
Suggest dealer installation of filters in IC-703 series	
<b>HM-154T</b> TTP microphone .....	75.99
<b>LC-156</b> Back pack carrying case .....	99.99
<b>MB-62</b> Mounting bracket for main unit ....	25.99
<b>MB-63</b> Mounting bracket for control panel	18.99
<b>MB-65</b> Mounting base platform .....	43.99
<b>MB-72</b> Carrying handle .....	14.99
<b>OPC-581</b> 11.5' separation cable .....	60.99
<b>OPC-587</b> 16' separation cable .....	79.99
<b>OPC-599</b> 7+8-pin to 13-pin adapter .....	60.99
<b>OPC-742</b> 13-pin cable .....	60.99
<b>OPC-1229</b> Extra DC cable .....	28.99
<b>OPC-1248</b> IC-703 to PS-125 cable .....	14.99

## Icom - continued

## AES Price

<b>RMK-706</b> Package; MB-62/MB-63/OPC-581	70.99
<b>SM-20</b> Deluxe desk microphone .....	199.99
<b>OPC-589</b> 8-pin to jack adapt; SM-6/8/20	35.99
<b>SP-10</b> Slim-line external speaker .....	69.99
<b>UT-102</b> Voice synthesizer .....	74.99
<b>IC-706 Mk II-G</b> Mini HF Xcvr/6m/2m/440/DSP	*899.99
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
<b>RMK-706 FREE with IC-706 Mk II-G! thru 12/31/07</b>	
(BET) <b>706 Tune Control</b> for IC-706 series ..	32.99
(W4R) <b>Antenna Boss II</b> interface; mot ant/IC706	169.99
<b>PS-125</b> 25A switching power supply .....	299.99
<b>AH-4</b> 80-6m 120w auto wire ant tuner .....	259.99
<b>AH-2B</b> Whip w/mt; 40-6m use tuner .....	349.99
<b>AH-2B extra whip only</b> .....	99.99
<b>AT-180</b> Auto coax antenna tuner; HF+6m ..	369.99
<b>OPC-598</b> 23' extension cable; AT-180 ....	73.99
<b>CR-282</b> High stability crystal unit; Mk II G ..	149.99
Suggest dealer install; CR-282, IC-706 Mk II-G	
<b>CT-17</b> CI-V level converter .....	129.99
<b>FL-100</b> 500 Hz 9 MHz IF CW filter .....	119.99
<b>FL-101</b> 250 Hz 9 MHz IF CW filter .....	119.99
<b>FL-103</b> 2.8 KHz 9 MHz IF SSB filter .....	109.99
<b>FL-223</b> 1.9 KHz 9 MHz IF SSB filter .....	99.99
<b>FL-232</b> 350 Hz 9 MHz IF SW/RTTY filter ....	89.99
<b>HM-154T</b> TTP microphone .....	75.99
<b>LC-156</b> Back pack carrying case .....	99.99
<b>MB-62</b> Mounting bracket for main unit ....	25.99
<b>MB-63</b> Mounting bracket for control panel	18.99
<b>MB-65</b> Mounting base platform .....	43.99
<b>MB-72</b> Carrying handle; Mk II-G only .....	14.99
<b>OPC-025D</b> Extra DC cable .....	29.99
<b>OPC-581</b> 11.5' separation cable .....	60.99
<b>OPC-587</b> 16' separation cable .....	79.99
<b>OPC-599</b> 7+8-pin to 13-pin adapter .....	60.99
<b>OPC-742</b> 13-pin cable .....	60.99
<b>RMK-706</b> Package; MB-62/MB-63/OPC-581	70.99
<b>SM-20</b> Deluxe desk microphone .....	199.99
<b>OPC-589</b> 8-pin to jack adapt; SM-6/8/20	35.99
<b>SP-10</b> Slim-line external speaker .....	69.99
<b>UT-102</b> Voice synthesizer .....	74.99
<b>IC-7000</b> Deluxe mini HF/6m/2m/440 Xcvr ..	*1299.99
<b>*Price after instant coupon; coupon expires 12/31/07</b>	
<b>RMK-7000 FREE with IC-7000! thru 12/31/07</b>	
(BET) <b>7000 Tune Control</b> for IC-7000 .....	54.99
(W4R) <b>Antenna Boss II</b> interface; mot ant/IC7000	169.99
<b>AH-4</b> 80-6m 120w auto wire ant tuner .....	259.99
<b>AH-2B</b> Whip w/mt; 40-6m use tuner .....	349.99
<b>AH-2B extra whip only</b> .....	99.99
<b>AT-180</b> Auto coax antenna tuner; HF+6m ..	369.99
<b>OPC-598</b> 23' extension cable; AT-180 ....	73.99
<b>CT-17</b> CI-V level converter .....	129.99
<b>HM-154T</b> TTP microphone .....	75.99
<b>LC-156</b> Back pack carrying case .....	99.99
<b>MB-62</b> Mounting bracket for main unit ....	25.99
<b>MB-65</b> Mounting base (MB-105 required) .	43.99
<b>MB-105</b> Remote head bracket .....	20.99
<b>MB-106</b> Carry handle .....	20.99
<b>OPC-599</b> 7+8-pin to 13-pin adapter .....	60.99
<b>OPC-742</b> 13-pin cable .....	60.99
<b>OPC-1443</b> 11.5' remote cable .....	49.99
<b>OPC-1444</b> 16' remote cable .....	80.99
<b>OPC-1457</b> Extra DC cable .....	28.99
<b>RMK-7000</b> Package; MB-62, MB-105, OPC-1443	95.99
<b>SM-20</b> Deluxe desk microphone .....	199.99
<b>OPC-589</b> 8-pin to jack adapt; SM-6/8/20	35.99
<b>SP-10</b> Slim-line external speaker .....	69.99
<b>AH-710</b> 1.9-30 MHz 80' folded dipole/98' coax	269.99
<b>PW-1</b> 160-15+6m linear amplifier/ps/tuner	4699.99
<b>RECEIVERS</b>	
<b>R-5-06</b> .15M-1.3G AM/FM hand/batts/cgr/cell blkd	*189.99
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	

## Icom - continued

## AES Price

<b>R-5-11*</b> HH Rcvr/restricted sales! special order	199.99
<b>AD-925MA</b> SMA- BNC adapter .....	16.99
<b>CP-18A</b> Cig lighter cable .....	30.99
<b>CS-R5</b> Win programming software .....	40.99
<b>OPC-474</b> Cloning cable (R-5 to R-5) .....	18.99
<b>OPC-478</b> PC RS-232C cable .....	45.99
<b>OPC-478U/UC</b> PC USB cable .....	60.99
<b>HP-4</b> Lightweight headphones .....	29.99
<b>LC-146A</b> Carrying case .....	24.99
<b>SP-13</b> Earphone .....	4.99
<b>R-3-27*</b> Rcvr/TV/restricted sales! special order	489.99
<b>BC-135</b> Desktop charger w/adaptor cup Δ	79.99
<b>BP-206</b> 3.7v 1650mah lith ion battery .....	63.99
<b>CP-18A</b> Cig lighter cable .....	30.99
<b>CS-R3</b> Win programming software .....	24.99
<b>OPC-474</b> Cloning cable (R-3 to R-3) .....	18.99
<b>OPC-478</b> PC RS-232C cable .....	45.99
<b>OPC-478U/UC</b> PC USB cable .....	60.99
<b>HP-4</b> Lightweight headphones .....	29.99
<b>LC-151</b> Carrying case .....	24.99
<b>SP-13</b> Earphone .....	4.99
<b>R-20-06</b> 150KHz-3.3GHz handheld Rcvr/cell blkd	*484.99
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
<b>R-20-11*</b> Rcvr/restricted sales! special order	
<b>BC-156-02</b> Desktop charger .....	80.99
<b>BP-206</b> Extra 3.7v 1650mah lith ion batt .	63.99
<b>CP-18A</b> Cig lighter cable .....	30.99
<b>CS-R20</b> Cloning software/USB cable; R-20	56.99
<b>CT-17</b> CI-V level converter .....	129.99
<b>LC-158</b> Carrying case .....	29.99
<b>MB-86</b> Swivel belt clip .....	9.99
<b>SP-13</b> Earphone .....	4.99
<b>PCR-1500-25</b> PC control Receiver/cell blkd .	*479.99
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
<b>FREE Bon CS4.5 with R-2500-05 thru 12/31/07!</b>	
<b>PCR-1500-30*</b> PC Rcvr/restricted sales! spec order	499.99
<b>AH-7000</b> 25-1000 MHz discone ant/50' coax	169.99
<b>BON CS-4.5</b> Bonito software .....	69.99
<b>CP-12L</b> Right angle cig cable w/filter .....	36.99
<b>OPC-254L</b> Right angle mini DC pwr cable .	14.99
<b>OPC-441</b> 16.4' speaker extension cable ....	33.99
<b>SP-10</b> Slim-line external speaker .....	69.99
<b>UT-106</b> Plug-in DSP unit .....	139.99
<b>R-1500-05</b> Receiver w/remote head/cell blkd	*579.99
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
<b>FREE Bon CS4.5 with R-2500-05 thru 12/31/07!</b>	
<b>R-1500-10*</b> Rcvr/restricted sales! special order	599.99
<b>AH-7000</b> 25-1000 MHz discone ant/50' coax	169.99
<b>BON CS-4.5</b> Bonito software .....	69.99
<b>CP-12L</b> Right angle cig cable w/filter .....	36.99
<b>OPC-254L</b> Right angle mini DC pwr cable .	14.99
<b>OPC-441</b> 16.4' speaker extension cable ....	33.99
<b>SP-10</b> Slim-line external speaker .....	69.99
<b>UT-106</b> Plug-in DSP unit .....	139.99
<b>PCR-2500-25</b> Advanced PC ctl Rcvr/cell blkd .	*709.99
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
<b>FREE Bon CS4.5 with R-2500-05 thru 12/31/07!</b>	
<b>PCR-2500-30*</b> PC Rcvr/restricted sales! spec order	849.99
<b>AH-7000</b> 25-1000 MHz discone ant/50' coax	169.99
<b>BON CS-4.5</b> Bonito software .....	69.99
<b>CP-12L</b> Right angle cig cable w/filter .....	36.99
<b>OPC-254L</b> Right angle mini DC pwr cable .	14.99
<b>OPC-441</b> 16.4' speaker extension cable ....	33.99
<b>SP-10</b> Slim-line external speaker .....	69.99
<b>UT-106</b> Plug-in DSP unit .....	139.99
<b>UT-108</b> DTMF decoder unit .....	35.99
<b>UT-118</b> Digital board .....	199.99
<b>UT-122</b> P-25 digital board .....	199.99
<b>R-2500-05</b> Advanced Rcvr w/rem head/cell blkd .	*879.99
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
<b>FREE Bon CS4.5 with R-2500-05 thru 12/31/07!</b>	



# Icom - continued

## AES Price

<b>R-2500-10*</b> Rcvr/restricted sales! special order	999.99
<b>AH-7000</b> 25-1000 MHz discone ant/50' coax	169.99
<b>BON CS-4.5</b> Bonito software	69.99
<b>CP-12L</b> Right angle cig cable w/filter	36.99
<b>OPC-254L</b> Right angle mini DC pwr cable	14.99
<b>OPC-441</b> 16.4' speaker extension cable	33.99
<b>SP-10</b> Slim-line external speaker	69.99
<b>UT-106</b> Plug-in DSP unit	139.99
<b>UT-108</b> DTMF decoder unit	35.99
<b>UT-118</b> Digital board	199.99
<b>UT-122</b> P-25 digital board	199.99
<b>BON CS-40</b> Bonito soft; PCR-1000-02/07 ...D	39.99
<b>CS-R2</b> DOS programming software; R-2 ...D	.29
<b>CS-R10</b> DOS programming software; R-10 ...D	.49
<b>FA-B01RE</b> Extra BNC duck antenna; R-10 ...D	9.99
<b>FA-B02RE</b> High sensitivity VHF BNC duck ...D	6.99
<b>LC-140</b> Carrying case for R-10 ...D	2.99
<b>OPC-131</b> DC power cord; PCR-1000 ...D	13.99
<b>R-75</b> .03-60 MHz shortwave Rcvr/DSP	599.99
<b>CR-282</b> High stability crystal unit	149.99
<b>CT-17</b> CI-V level converter	129.99
<b>FL-52A</b> 500 Hz 455 KHz IF CW filter	179.99
<b>FL-53A</b> 250 Hz 455 KHz IF CW filter	179.99
<b>FL-100</b> 500 Hz 9 MHz IF CW filter	119.99
<b>FL-101</b> 250 Hz 9 MHz IF CW filter	119.99
<b>FL-103</b> 2.8 KHz 9 MHz IF SSB filter	109.99
<b>FL-222</b> 1.9 KHz 455 KHz IF SSB filter	199.99
<b>FL-223</b> 1.9 KHz 9 MHz IF SSB filter	99.99
<b>FL-232</b> 350 Hz 9 MHz IF CW/RTTY filter	89.99
<b>FL-257</b> 3.3 KHz 455 KHz IF SSB filter	199.99
<b>MB-5</b> Mobile mount	59.99
<b>MB-23</b> Side mount carrying handle	15.99
<b>OPC-869</b> DC cable	55.99
<b>RS-R75</b> PC control software w/RS-232 cable	80.99
<b>OPC-478</b> PC RS-232C cable	45.99
<b>SP-23</b> Speaker w/audio filters	199.99
<b>UT-102</b> Voice synthesizer	74.99
<b>R-8500*</b> Rcvr/restricted sales! special order	1699.99
<b>AH-7000</b> 25-1000 MHz discone ant/50' coax	169.99
<b>CR-293</b> High stability xtal unit	289.99
<b>FL-52A</b> 500 Hz CW filter	179.99
<b>MB-12</b> Mobile mount; R-8500	49.99
<b>MB-23</b> Side mount carrying handle	15.99
<b>RS-R8500</b> PC control software w/RS-232 cbl	69.99
<b>SP-23</b> Speaker w/audio filters	199.99
<b>UT-102</b> Voice synthesizer	74.99
<b>R-9500-02</b> Deluxe Receiver special order	13500.00
<b>R-9500-06*</b> Rcvr/restricted sales! special order	13500.00
<b>CT-17</b> CI-V level converter	129.99
<b>SP-20</b> Speaker w/audio filters	239.99
<b>UT-122</b> P-25 digital board	199.99

\*United States government agencies **ONLY** may purchase unblocked models of PCR-1000/PCR-1500/PCR-2500/R-3/R-5/R-20/R-1500/R-2500/R-8500/R-9500 for official government use only. State and local governments may purchase R-9500 unblocked only also. Mail or FAX purchase order to AES. Exports: inquire.

<b>BC-96</b> Wireless mic holder; IC-2100H ...D	9.99
<b>CS-2100</b> DOS cloning software; IC-2100H ...D	6.99
<b>CS-2720</b> Win/DOS clone software; IC-2720H ...D	35.99
<b>HM-133S</b> Extra TTP mic; IC-2100H ...D	89.99
<b>MB-28H</b> Mobile bkt; 2100H/207H/2800H ...D	14.99
<b>MB-84</b> Remote controller bracket; IC-2720H ...D	18.99
<b>MB-85</b> Combination bracket; IC-2720H ...D	25.99
<b>OPC-346</b> 9.8' DC cable; 2100H/207H/2800H ...D	28.99
<b>OPC-1156</b> 11.5' separation cable; IC-2720H ...D	13.99

<b>IC-2200H</b> 65w 2m FM Xcvr w/WX alert	*139.99
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
<b>CS-2200H</b> Windows cloning software	80.99
<b>OPC-478</b> PC RS-232C cable	45.99
<b>OPC-478U/UC</b> PC USB cable	60.99

# Icom - continued

## AES Price

<b>MB-17A</b> Quick release bracket	49.99
<b>OPC-347</b> 23' DC cable	46.99
<b>OPC-440</b> 16.4' mic extension cable	85.99
<b>OPC-441</b> 16.4' speaker extension cable	33.99
<b>OPC-474</b> Radio to radio cloning cable	18.99
<b>OPC-589</b> 8-pin mic jack adapter cable	35.99
<b>OPC-1132</b> 9.8' DC cable	28.99
<b>SP-10</b> Slim-line external speaker	69.99
<b>UT-108</b> DTMF decoder unit	35.99
<b>UT-118</b> Digital board	199.99
<b>IC-V8000</b> 75w 2m FM Xcvr w/WX alert/scan	*179.99
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
<b>CS-V8000</b> Windows cloning software	35.99
<b>OPC-478</b> PC RS-232C cable	45.99
<b>OPC-478U/UC</b> PC USB cable	60.99
<b>OPC-347</b> 23' DC cable	46.99
<b>OPC-440</b> 16.4' mic extension cable	85.99
<b>OPC-441</b> 16.4' speaker extension cable	33.99
<b>OPC-474</b> Radio to radio cloning cable	18.99
<b>OPC-589</b> 8-pin mic jack adapter cable	35.99
<b>OPC-1132</b> 9.8' DC cable	28.99
<b>SP-10</b> Slim-line external speaker	69.99
<b>UT-108</b> DTMF decoder unit	35.99
<b>V8000-MMB</b> Extra mobile bracket	26.99
<b>IC-208H</b> 55w 2m/50w 440 FM Xcvr/WX alert	*254.99
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
<b>*Price after instant coupon; coupon expires 12/31/07</b>	
<b>CS-208</b> Win cloning software	35.99
<b>OPC-478</b> PC RS-232C cable	45.99
<b>OPC-478U/UC</b> PC USB cable	60.99
<b>MB-17A</b> Quick release bracket	49.99
<b>MB-58</b> Remote controller bracket	39.99
<b>MB-65</b> Mounting base platform	43.99
<b>OPC-347</b> 23' DC cable	46.99
<b>OPC-440</b> 16.4' mic extension cable	85.99
<b>OPC-441</b> 16.4' speaker extension cable	33.99
<b>OPC-474</b> Radio to radio cloning cable	18.99
<b>OPC-589</b> 8-pin mic jack adapter cable	35.99
<b>OPC-601R</b> 23' separation cable	67.99
<b>OPC-1132</b> 9.8' DC cable	28.99
<b>SP-10</b> Slim-line external speaker	69.99
<b>IC-2820H</b> 50w 2m/50w 440 FM Xcvr	649.99
<b>CS-2820</b> Win cloning software	35.99
<b>OPC-478</b> PC RS-232C cable	45.99
<b>OPC-478U/UC</b> PC USB cable	60.99
<b>MB-65</b> Mounting base platform	43.99
<b>OPC-347</b> 23' DC cable	46.99
<b>OPC-440</b> 16.4' mic extension cable	85.99
<b>OPC-441</b> 16.4' speaker extension cable	33.99
<b>OPC-474</b> Radio to radio cloning cable	18.99
<b>OPC-589</b> 8-pin mic jack adapter cable	35.99
<b>OPC-1132</b> 9.8' DC cable	28.99
<b>OPC-1529R</b> Data communications cable	25.99
<b>SP-10</b> Slim-line external speaker	69.99
<b>UT-123</b> DV mode & GPS receiver	299.99
<b>IC-910H</b> 100w 2m/75w 430 FM/SSB Xcvr	1279.99
<b>PS-125</b> 25A switching power supply	299.99
<b>AG-25</b> 2m mast mounted GaSfET preamp	159.99
<b>AG-35</b> 430 MHz mast mounted preamp	169.99
<b>CR-293</b> High stability xtal unit	289.99
<b>CT-17</b> CI-V level converter	129.99
<b>FL-132</b> 500 Hz main Rcvr CW filter	119.99
<b>FL-133</b> 500 Hz sub band Rcvr CW filter	119.99
<b>MB-5</b> Mobile mount	59.99
<b>MB-23</b> Side mount carrying handle	15.99
<b>SM-20</b> Deluxe desk microphone	199.99
<b>SP-10</b> Slim-line external speaker	69.99
<b>UT-102</b> Voice synthesizer	74.99
<b>UT-106</b> Plug-in DSP unit (one per band)	139.99
<b>UX-910</b> 10w 1.2GHz module	529.99

# Icom - continued

## AES Price

<b>ID-1</b> 10w 1.2GHz FM/128k analog/digital Xcvr	*979.99
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
<b>MB-17A</b> Quick release bracket	49.99
<b>OPC-347</b> 23' DC cable	46.99
<b>OPC-440</b> 16.4' mic extension cable	85.99
<b>OPC-1132</b> 9.8' DC cable	28.99
<b>SP-10</b> Slim-line external speaker	69.99
<b>ID-800</b> 55w 2m/50w 440 FM analog/dig Xcvr	*559.99
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
<b>*Price after instant coupon; coupon expires 12/31/07</b>	
<b>CS-D800</b> Cloning software	45.99
<b>OPC-478</b> PC RS-232C cable	45.99
<b>OPC-478U/UC</b> PC USB cable	60.99
<b>MB-17A</b> Quick release bracket	49.99
<b>OPC-347</b> 23' DC cable	46.99
<b>OPC-440</b> 16.4' mic extension cable	85.99
<b>OPC-441</b> 16.4' speaker extension cable	33.99
<b>OPC-601R</b> 23' separation cable	67.99
<b>OPC-1132</b> 9.8' DC cable	28.99
<b>OPC-1384</b> RS-232C data cable	35.99
<b>SP-10</b> Slim-line external speaker	69.99
<b>IC-91A</b> 5w 2m/440 D-Star upgradeable HT	329.99
<b>UT-121</b> Digital board for D-Star	199.99
<b>IC-91AD</b> 5w 2m/440 D-Star compatible HT	449.99
<b>AD-92SMA</b> SMA- BNC adapter	16.99
<b>BC-139</b> Desk rapid charger	94.99
<b>BP-216</b> Battery case for 2 AA	35.99
<b>BP-217</b> 7.4v 1300mah lith ion battery	89.99
<b>CP-19R</b> Cig lighter cable w/filter	44.99
<b>HM-75A</b> Remote control microphone	70.99
<b>HM-128</b> Earphone+microphone	25.99
<b>HM-131</b> Spkr/mic/earph jack/revolving clip	38.99
<b>HS-85</b> Headset w/VOX	89.99
<b>LC-163</b> Carrying case	36.99
<b>OPC-474</b> Cloning cable (radio to radio)	18.99
<b>OPC-782</b> Plug adapt cable; HS85/SP13	16.99
<b>RS-91</b> Rem control software/RS-232 cable	55.99
<b>SP-13</b> Earphone	4.99
<b>D-STAR REPEATERS</b>	
<b>ID-RP2C</b> Repeater controller	1459.99
<b>ID-RP2C/2D</b> Controller/1.2GHz data rpt spec order	2297.99
<b>ID-RP2C/2V</b> Controller/1.2GHz voice rpt spec order	2969.99
<b>ID-RP2D</b> 1.2GHz data module special order	1112.99
<b>ID-RP2D/V*</b> Complete 1.2G D/V repeater spec order	3999.99
<b>*ID-RP2D/V Includes repeater controller</b>	
<b>ID-RP2L-06*</b> 10GHz backbone (1 of 2) special order	4999.99
<b>ID-RP2L-07*</b> 10GHz backbone (2 of 2) special order	4999.99
<b>*Both 06 &amp; 07 are required to complete a link</b>	
<b>ID-RP2V</b> 1.2GHz voice repeater special order	1559.99
<b>ID-RP2000V</b> 2m voice repeater	1399.99
<b>ID-RP4000V</b> 440MHz voice repeater	1399.99
<b>IC-V8 Sport</b> 5.5w 2m FM HT/alkaline case	99.99
<b>BC-119-N01</b> Desk charger (adapter required)	65.99
<b>AD-94-11</b> Adapter cup; BC-119-N01	10.99
<b>AD-101</b> Batt adapt; BP-211N/BC-119-N01	18.99
<b>BC-144N/BC144N51</b> Rapid desk charger	60.99
<b>BP-208N</b> Battery case	18.99
<b>BP-209N</b> 7.2v 1100mah 5.5w battery	40.99
<b>BP-210N</b> 7.2v 1650mah 5.5w battery	50.99
<b>BP-211N</b> 7.4v 1800mah lith ion battery	75.99
<b>BP-222N</b> 7.2v 600mah 5.5w battery	35.99
<b>CP-17L</b> Right angle cig cable for charger	24.99
<b>CS-V8</b> Cloning software for IC-V8	35.99
<b>OPC-474</b> Cloning cable (V8 to V8)	18.99
<b>OPC-478</b> PC RS-232C cable	45.99
<b>OPC-478U/UC</b> PC USB cable	60.99
<b>HM-46L</b> Slim-line spkr/mic, rt angle plug	45.99
<b>HM-54</b> Hvy duty spkr/mic	79.99
<b>HM-75A</b> Remote control microphone	70.99
<b>HM-128L</b> Rt angle plug earphone+mic	25.99
<b>HM-158L</b> Rt angle spkr/mic/earph jack/clip	42.99



## Icom - continued

## AES Price

HS-51 Headset w/VOX .....	96.99
HS-94 Ear-piece style headset; use w/VS-1L	24.99
VS-1L Right angle VOX-PTT unit for HS-94	42.99
LCF3G Swivel Leather case with swivel .....	50.99
MB-74N Spring loaded belt clip; orig batts	12.99
MB-86 Swivel belt clip; N-series batteries	9.99
MB-87 Swivel belt clip; original batteries Δ	6.99
MB-103 Spring loaded belt clip; N-series batts	12.99
OPC-515L Right angle DC cord for charger	19.99
SP-13 Earphone .....	4.99
UT-108 DTMF decoder unit .....	35.99
<b>IC-V82</b> 7w 2m FM HT/battery/charger .....	<b>*119.99</b>
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
<b>IC-U82</b> 5w 440 FM HT/battery/charger .....	<b>*119.99</b>
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
BC-119-N01 Desk charger (adapter required)	65.99
AD-94-11 Adapter cup; BC-119-N01 .....	10.99
AD-101 Batt adapt; BP-211N/BC-119-N01	18.99
BC-144N/BC144N51 Rapid desk charger ..	60.99
BP-208N Battery case .....	18.99
BP-209N 7.2v 1100mah 5.5w battery .....	40.99
BP-210N 7.2v 1650mah 5.5w battery .....	50.99
BP-211N 7.4v 1800mah lith ion battery ..D	75.99
BP-222N 7.2v 600mah 5.5w battery .....	35.99
CS-V82 Cloning software for IC-V82/U82 ..	40.99
OPC-474 Cloning cable (HT to HT) .....	18.99
OPC-478 PC RS-232C cable .....	45.99
OPC-478U/UC PC USB cable .....	60.99
HM-46 Slim-line speaker/mic .....	45.99
HM-54 Heavy duty spkr/mic .....	79.99
HM-75A Remote control microphone .....	70.99
HM-128L Rt angle plug earphone+mic .....	25.99
HM-158L Rt angle spkr/mic/earph jack/clip	42.99
HS-85 Headset w/VOX .....	89.99
HS-94 Ear-piece style headset; use w/VS-1L	24.99
VS-1L Right angle VOX-PTT unit for HS-94	42.99
MB-86 Swivel belt clip .....	9.99
MB-103 Spring loaded belt clip; N-series batts	12.99
SP-13 Earphone .....	4.99
UT-108 DTMF decoder unit .....	35.99
UT-118 Digital board .....	199.99
<b>IC-V85</b> 7w 2m FM HT/lith ion/charger .....	<b>199.99</b>
BP-226 Battery case for 5 AA .....	39.99
BP-227 7.2v 1700mah lith ion battery .....	84.99
CP-19R Cig lighter cable w/filter .....	44.99
CS-V85 Cloning software for IC-V85 .....	40.99
OPC-474 Cloning cable (HT to HT) .....	18.99
OPC-478U/UC PC USB cable .....	60.99
HM-75A Remote control microphone .....	70.99
HM-128L Rt angle plug earphone+mic .....	25.99
HM-158L Rt angle spkr/mic/earph jack/clip	42.99
HS-85 Headset w/VOX .....	89.99
HS-94 Ear-piece style headset; use w/VS-1L	24.99
VS-1L Right angle VOX-PTT unit for HS-94	42.99
LC-167 Carrying case .....	38.99
SP-13 Earphone .....	4.99
UT-108 DTMF decoder unit .....	35.99
<b>IC-T7H Sport</b> 2w 2m/440 FM HT/alkaline case	<b>169.99</b>
AD-56 Batt pack adapt; T7H/T22A/rapid cgr	18.99
BC-110A/BC-74 Extra wall charger .....	25.99
BC-119-N11 Nicad/NiMH desk cgr (use adapt)	89.99
BP-170 Battery case .....	35.99
BP-172 4.8v 950mah battery .....	79.99
BP-173 9.6v 600mah battery .....	119.99
BP-180 7.2v 600mah battery .....	83.99
CP-12 Cig lighter cable w/filter .....	36.99
CP-12L Right angle cig cable w/filter .....	36.99
CSW-HH4 Windows prog soft/cbl; T7H/W32A	50.99
OPC-474 Cloning cable .....	18.99
OPC-478 PC RS-232C cable .....	45.99
FA-1443B Extra 2m/440 dual band duck Δ	29.99
HM-46 Slim-line speaker/mic .....	45.99

## Icom - continued

## AES Price

HM-54 Heavy duty spkr/mic .....	79.99
HM-75A Remote control microphone .....	70.99
HM-128 Earphone+microphone .....	25.99
HM-131 Spkr/mic/earph jack/revolving clip	38.99
HS-10 Boom mic/headset .....	29.99
HS-10SA VOX unit .....	39.99
HS-85 Headset w/VOX .....	89.99
HS-94 Ear-pc headset; use w/VS-1 .....	24.99
VS-1 VOX-PTT unit for HS-94 .....	42.99
LC-137 Vinyl case; T7H w/BP173/180 .....	38.99
NCP-1 Nylon chest pack .....	39.99
OPC-254L Right angle mini DC pwr cable	14.99
SP-13 Earphone .....	4.99
AD-28 Batt pack adapt for rapid cgr; 2GXAT	2.99
AD-44 Batt adapter; rapid cgr; T21A .....	.19
AD-51 Batt pack adapt; W32A/rapid cgr .....	14.99
AD-81 Batt adapter for rapid cgr; IC-T2H	14.99
AD-87 Batt pack adapter; rapid cgr; T81A	8.99
AD-88 PCB board; original BC-119-11 .....	24.99
BC-119-N21 Nicad/NiMH desk cgr (use adapt); T81A	99.99
BC-127A Extra nicad charger; IC-Q7 .....	.69
BC-133 Drop-in trickle charger; IC-T2H	24.99
BC-122A AC adapter for BC-133 .....	9.99
BP-83 7.2v 600mah battery .....	59.99
BP-90 AA alkaline battery case .....	35.99
BP-194 AA alkaline battery case; IC-T2H	18.99
BP-195 9.6v 700mah nicad batt; IC-T2H	29.99
BP-196 9.6v 1050mah nicad batt; IC-T2H	39.99
BP-200L 9.6v 760mah NiMH battery; T81A	79.99
LC-128 Vinyl case; IC-W32A .....	38.99
LC-145 Carrying case for IC-T2H .....	24.99
LCF3 Swivel Leather case w/swivel; IC-T2H	24.99
<b>IC-T90A</b> 5w 6m/2m/440 FM HT/lith ion .....	<b>*249.99</b>
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
AD-92SMA SMA- BNC adapter .....	16.99
BC-139 Desk rapid charger .....	94.99
BP-216 Battery case for 2 AA .....	35.99
BP-217 7.4v 1300mah lith ion battery .....	89.99
CP-19R Cig lighter cable w/filter .....	44.99
CS-T90A Windows cloning software; IC-T90A	35.99
OPC-474 Cloning cable (radio to radio)	18.99
OPC-478 PC RS-232C cable .....	45.99
OPC-478U/UC PC USB cable (XP only) ..	60.99
HM-46 Slim-line speaker/mic .....	45.99
HM-75A Remote control microphone .....	70.99
HM-128 Earphone+microphone .....	25.99
HM-131 Spkr/mic/earph jack/revolving clip	38.99
HS-85 Headset w/VOX .....	89.99
HS-94 Ear-pc headset; use w/VS-1 .....	24.99
VS-1 VOX-PTT unit for HS-94 .....	42.99
LC-152A Carrying case .....	24.99
MB-83 Swivel belt clip .....	9.99
SP-13 Earphone .....	4.99
<b>IC-P7A</b> 1.5w 2m/1w 440 FM submini HT/lith ion	<b>*229.99</b>
<b>*Price after mail-in rebate; rebate ends 12/31/07</b>	
AD-92SMA SMA- BNC adapter .....	16.99
BP-243 3.7v 1800mah lith ion battery .....	56.99
CP-21LR Cig cable w/filter .....	56.99
CS-P7 Windows cloning software .....	35.99
OPC-474 Cloning cable (radio to radio)	18.99
OPC-478 PC RS-232C cable .....	45.99
OPC-478U/UC PC USB cable .....	60.99
HM-128 Earphone+microphone .....	25.99
HM-131 Spkr/mic/earph jack/revolving clip	38.99
LC-161 Carrying case .....	36.99
OPC-782 Plug adapter cable for SP-13	16.99
SP-13 Earphone .....	4.99

## ACCESSORIES

AG-25 2m mast mounted GaSFET preamp .....	\$159.99
AG-35 430 MHz mast mounted preamp .....	169.99
CT-17 CI-V level converter .....	129.99

## Icom - continued

## AES Price

PS-125 25A switching power supply .....	299.99
SM-20 Deluxe desk microphone .....	199.99
SP-5 Mobile speaker .....	39.99
SP-10 Slim-line external speaker .....	69.99
SP-20 Speaker w/audio filters .....	239.99
SP-23 Speaker w/audio filters .....	199.99

## CONSUMER ELECTRONICS

A-24 5w air handheld w/NiMH battery .....	\$319.99
IC-F21-GM 15 ch 4w GMRS/FRS handheld ...	129.99
IC-M32 Waterproof 5w VHF marine handheld	149.99
IC-M72 Waterproof 6w VHF marine handheld	199.99
IC-M302W02 White waterproof 25w VHF marine	159.99
IC-M402W02 White waterproof 25w VHF marine	129.99
M-710 (21) 150w HF marine SSB .spec order	1399.99
AT-130 HF marine auto ant tuner spec order	449.99
M-802 150w DSP marine SSB Xcvr spec order	1749.99

## IDIOM PRESS (IDI)

K-5 Logikey CW keyer .....	\$149.99
HK-3 Hook-up kit .....	10.99

## International Ant (IAC)

80m-S 80m half sloper 67' antenna .....	\$ 49.99
40m-S 40m half sloper 33' antenna .....	24.99

## ISOTRON (ISO)

160C 160m 9.5'x16"x15" 100 KHz bandwidth ant	\$173.99
80 80m 32"x16"x15" 110 KHz bandwidth ant	109.99
40 40m 22"x16"x15" 250 KHz bandwidth ant	88.99
20 20m 21"x8"x4" 350 KHz bandwidth ant	78.99
15 15m 21"x1.5"x4" 450 KHz bandwidth ant	78.99
10 10m 16"x1.5"x4" 1 MHz bandwidth ant	78.99
6 6m 16.5"x2"x4" 1.25 MHz bandwidth ant	78.99
80/40 Combo 80/40m 32"x16"x30" ant ...	188.99
40/20 Combo 40/20m combo antenna .....	167.99
20/15/10 Combo 20/15/20m combo ant .....	198.99

## JR (JRP)

317275 XS3 synth FM pistol/V-2590M/V-2270 75M	\$ 99.99
SP-100 SC-1 fwd/rev speed control .....	24.99

## K-COM (KCO)

RF-1 Sgl line modular phone 3-30 MHz RFI filter	\$ 16.99
RF-1/Low Modular phone .5-3 MHz RFI filter	16.99
RF-1/2-line 2-line modular 3-30 MHz RFI filt	22.99
RF-1/coiled Coiled cord modular 3-30MHz filt	22.99
RF-2 Hard-wired telephone 3-30 MHz RFI filt	10.99
RF-2/Low Hard-wired phone .5-3 MHz RFI filt	10.99

## KNK Marketing (KNK)

RLG 2007 So CA rpt listings/SW USA rpt map	\$ 5.00
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## KANTRONICS (KAN)

KPC-3 Plus/128K Small packet TNC/128K RAM	\$218.99
KPC-9612 Plus/128K 9600 controller/128K ...	410.99
(CSS) Pacterm for Windows Soft; Kan TNCs	99.99
12VDC Adaptor 300ma adaptor .....	19.99
APRS adapter cable; GPS to Kantronics TNC	24.99
Host Master II+ IBM software .....	39.99
KAM 98 Single port multi-mode dig controller	329.99
(CSS) Pacterm for Windows Soft; Kan TNCs	99.99
12VDC Adaptor 300ma adaptor .....	19.99
APRS adapter cable; GPS to Kantronics TNC	24.99
KAM XL All mode TNC w/DSP modems .....	425.99
(CSS) Pacterm for Windows Soft; Kan TNCs	99.99
12VDC Adaptor 300ma adaptor .....	19.99
APRS adapter cable; GPS to Kantronics TNC	24.99
MT-1200 Mobile Tracker TNC for external NMEA GPS	239.99
MT-1200G Mobile Tracker TNC w/GPS/antenna	299.99

## KENT (KNT)

SK-1 Straight key .....	\$129.99
SP-1 Single paddle key .....	139.99
TP-1 Dual paddle iambic key .....	149.99



## Kent - continued AES Price

VK-1 Vail Correspondent straight key ..... 179.99

## KENWOOD (KEN)

TS-B2000 PC ctl HF/6m/2m/430 Xcvt/tuner \*1399.99

\*Price after instant coupon; coupon expires 10/31/07

TS-2000 HF/6m/2m/430 Xcvt/ant tuner ..... \*1614.99

\*Price after instant coupon; coupon expires 10/31/07

UT-20 1.2GHz module Kenwood install only

TS-2000X HF/6m/2m/430/1.2 Xcvt/tuner ..... \*2074.99

\*Price after instant coupon; coupon expires 10/31/07

KPS-15 23A switching ps w/fan, 25A surge ..... 134.99

PS-53 Heavy duty 22.5A power supply ....D 269.99

ARCP-2000 PC control soft; included w/TSB/LE ..... 82.99

DRU-3A Digital recording unit; included w/LE ..... 129.99

HS-5 Deluxe headphones ..... 79.99

HS-6 Lightweight headphones ..... 59.99

MB-430 Mobile mounting bracket ..... 49.99

MC-43S Extra 8-pin hand mic w/up-down .. 59.99

MC-57DM Back-lit TTP hand mic ..... 79.99

MC-60A 8-pin amp desk mic w/up-down .. 149.99

MC-90 2-head DSP desk microphone ..... 249.99

PG-2Y 13' DC cable ..... 39.99

PG-2Z 6.5' heavy duty DC cable ..... 37.99

RC-2000 Remote faceplate mobile kit ..... 369.99

SP-23 External speaker ..... 89.99

VS-3 Voice synthesizer; included w/LE ..... 39.99

TS-480HX 200w HF/100w 6m Xcvt ..... \*1094.99

\*Price after instant coupon; coupon expires 10/31/07

TS-480SAT 100w HF/6m Xcvt w/auto tuner ..... \*989.99

\*Price after instant coupon; coupon expires 10/31/07

KPS-15 23A sw ps/fan, 25A surge (use 2 for 200w) ..... 134.99

PS-53 HD 22.5A ps (use 2 for 200w) ....D 269.99

E30-3489-05 Extra 6' DC cable for TS-480 ..... 38.99

HS-5 Deluxe headphones ..... 79.99

HS-6 Lightweight headphones ..... 59.99

MB-480 Carrying bracket w/handle ..... 47.99

MC-43S Extra 8-pin hand mic w/up-down .. 59.99

MC-47 Multi-function 8-pin hand mic ..... 59.99

MC-60A 8-pin amp desk mic w/up-down .. 149.99

MJ-88 Modular to 8-pin mic adapter ..... 32.99

PG-4Z 13' panel extension kit ..... 58.99

PG-20 22' DC cable ..... 46.99

SO-3 TCXO unit ..... 109.99

SP-23 External speaker ..... 89.99

SP-50B High quality external mobile spkr .. 55.99

VGS-1 Voice guide & storage unit ..... 67.99

YF-107C 500 Hz CW filter ..... 119.99

YF-107CN 270 Hz CW filter ..... 119.99

YF-107SN 1.8 KHz SSB filter ..... 119.99

TS-570S(G) HF Xcvt/6m/AFDSP/tuner/mic ....D \*1079.99

\*Price after instant coupon; coupon expires 10/31/07

KPS-15 23A switching ps w/fan, 25A surge ..... 134.99

PS-53 Heavy duty 22.5A power supply ....D 269.99

DRU-3A Digital recording unit ..... 129.99

HS-5 Deluxe headphones ..... 79.99

HS-6 Lightweight headphones ..... 59.99

MB-430 Mobile mounting bracket ..... 49.99

MC-43S 8-pin hand mic w/up-down ..... 59.99

MC-60A 8-pin amp desk mic w/up-down .. 149.99

MC-90 2-head DSP desk microphone ..... 249.99

PG-2Y 13' DC cable ..... 39.99

PG-2Z 6.5' heavy duty DC cable ..... 37.99

SO-2 TCXO unit ..... 179.99

SP-23 External speaker ..... 89.99

SP-50B High quality external mobile spkr .. 55.99

VS-3 Voice synthesizer ..... 39.99

YK-88C-1 500 Hz CW filter ..... 129.99

YK-88CN-1 270 Hz CW filter ..... 129.99

YK-88SN-1 1.8 KHz SSB filter ..... 129.99

7-pin DIN plug ..... 4.99

8-pin DIN plug ..... 6.99

13-pin DIN plug ..... 9.99

## Kenwood - continued AES Price

AT-50 External HF auto tuner ..... 319.99

PG-4M 18' extension cable for AT-50 ..... 29.99

HS-5 Deluxe headphones ..... 79.99

HS-6 Lightweight headphones ..... 59.99

KES-5 Heavy duty 40w unterminated speaker ..... 59.99

KPS-15 23A switching ps w/fan, 25A surge ..... 134.99

LF-30A 1kw PEP low pass filter ..... 64.99

MC-43S 8-pin hand mic w/up-down switch .. 59.99

MC-60A 8-pin amp desk mic w/up-down ..... 149.99

MJ-88 Modular to 8-pin mic adapter ..... 32.99

PG-3B 15A DC line noise filter ..... 29.99

PS-52 Heavy duty power supply; TS-870S .... 239.99

SP-31 External speaker; TS-870S ..... 99.99

SP-50B High quality external mobile speaker ..... 55.99

SP-950 Ext spkr/audio filters; TS-950SDX .... 149.99

YK-107C 500 Hz CW filter; TS-50S ..... 119.99

TM-V71A 50w 2m/50w 440 FM Xcvt ..... 399.99

DFK-3D Detachable front panel kit ..... 47.99

MJ-88 Modular to 8-pin mic adapter ..... 32.99

PG-2N Extra DC cable ..... 17.99

PG-5A Packet data cable ..... 15.99

PG-5F Extension cable kit ..... 71.99

PG-5G Programming interface kit ..... 37.99

PG-5H PC interface kit ..... 59.99

SP-50B High quality external mobile spkr .. 55.99

VGS-1 Voice guide & storage unit ..... 67.99

TM-D700A 50w 2m/35w 440 FM Xcvt/TNC ....D \*469.99

\*Price after instant coupon; coupon expires 10/31/07

MB-201 Extra mobile bracket ..... 25.99

MJ-88 Modular to 8-pin mic adapter ..... 32.99

PG-2N Extra DC cable ..... 17.99

PG-4X 13' extension cable kit ..... 69.99

PG-5A Packet data cable ..... 15.99

SP-50B High quality external mobile spkr .. 55.99

VS-3 Voice synthesizer ..... 39.99

TM-D710A 50w 2m/50w 440 FM Xcvt/TNC .... 599.99

MJ-88 Modular to 8-pin mic adapter ..... 32.99

PG-2N Extra DC cable ..... 17.99

PG-5A Packet data cable ..... 15.99

PG-5F Extension cable kit ..... 71.99

PG-5G Programming interface kit ..... 37.99

PG-5H PC interface kit ..... 59.99

SP-50B High quality external mobile spkr .. 55.99

VGS-1 Voice guide & storage unit ..... 67.99

TM-271A 60w 2m FM Xcvt w/WX alert ..... 169.99

MJ-88 Modular to 8-pin mic adapter ..... 32.99

PG-2N Extra DC cable ..... 17.99

PG-5D PC interface cable ..... 78.99

SP-50B High quality external mobile spkr .. 55.99

DFK-3 9' separate displ cable kit; 642/742 .... 28.99

DFK-3C 9' sep disp cable kit; TMG707A .... 44.99

DFK-4 13' remote cable kit; 642/742AD .... 59.99

DFK-4C 13' remote cable kit; TMG707A .... 64.99

DFK-7 Dlx 22' remote cable kit; 642/742 .... 79.99

DFK-7C Dlx 23' remote cable kit; TMG707A .. 99.99

KQT-8/TSU-6 Prog CTCSS decoder; TM-541A .. 49.99

MC-57DM Back-lit TTP mic; 241/331/441/541 .. 79.99

MC-58DM Back-lit TTP mic; 251/733/742/255V7A 79.99

PG-4S PC interface cable; TM-G707A ..... 32.99

TSU-7 CTCSS decoder unit; TM-642/742AD .. 49.99

TU-7 Prog encoder; 2550/751A/TW-4100A .. 49.99

PB-34 9.6v 600mah 5w battery; TH-22 ..... 79.99

SC-45 Soft case for TH-G71A/PB-38/39 .... 9.99

TSU-8 CTCSS decoder; TH22/42AT/TM461A .. 49.99

TH-K2AT 5w 2m FM HT/battery charger ..... 139.99

BT-14 6-AA battery holder ..... 19.99

EMC-3 Lapel clip mic/ear piece ..... 24.99

HMC-3 VOX/boom mic headset ..... 48.99

KHS-21 Boom mic headset ..... 33.99

KSC-24 Rapid charger ..... 48.99

PB-43N 7.2v 1100mah NiMH battery ..... 44.99

## Kenwood - continued AES Price

PG-2W DC cable w/fuse ..... 17.99

PG-3J Cig lighter cord w/filter ..... 37.99

PG-4Y 9-pin PC programming cable ..... 32.99

SC-54 Soft case ..... 16.99

SMC-32 Mini water resist rt angle spkr/mic . 52.99

SMC-33 Speaker/mic w/remote control ..... 65.99

SMC-34 Spkr/mic w/vol cont/function keys ..... 32.99

WR-2 Water resistant bag; TH-22/42AT ..... 29.99

TH-D7A(G) 5w 2m/440 FM HT/1200/9600 TNC .... \*324.99

\*Price after instant coupon; coupon expires 10/31/07

BC-19 Rapid charger ..... 64.99

BT-11 4-AA battery holder ..... 17.99

EMC-3 Lapel clip mic/ear piece ..... 24.99

HMC-3 VOX/boom mic headset ..... 48.99

J29-0631-13 Belt clip for batt; D7A/G71A . 4.99

PB-39 9.6v 600mah 5w battery ..... 57.99

PG-2W DC cable w/fuse ..... 17.99

PG-3J Cig lighter cord w/filter ..... 37.99

PG-4W PC software/cable; TH-D7A(G) ..... 55.99

SC-47B Black soft case for TH-D7A(G) ..... 15.99

SC-47OR Orange soft case for TH-D7A(G) .. 15.99

SMC-32 Mini water resist rt angle spkr/mic . 52.99

SMC-33 Speaker/mic w/remote control ..... 65.99

SMC-34 Spkr/mic w/vol cont/function keys ..... 32.99

WR-2 Water resistant bag ..... 29.99

TH-F6A 5w 2m/220/440 FM HT/lith ion ..... 329.99

BT-13 AA battery case ..... 25.99

EMC-3 Lapel clip mic/ear piece ..... 24.99

HMC-3 VOX/boom mic headset ..... 48.99

KHS-21 Boom mic headset ..... 33.99

PB-42L Extra 7.4v 1550mah lithium ion batt 79.99

PG-2W DC cable w/fuse ..... 17.99

PG-3J Cig lighter cord w/filter ..... 37.99

PG-4Y 9-pin PC programming cable ..... 32.99

SC-51 Soft case w/swivel belt clip ..... 16.99

SMC-32 Mini water resist rt angle spkr/mic . 52.99

SMC-33 Speaker/mic w/remote control ..... 65.99

SMC-34 Spkr/mic w/vol cont/function keys ..... 32.99

WR-2 Water resistant bag ..... 29.99

## CONSUMER ELECTRONICS

TKM-707 150w HF marine SSB Xcvt spec order 1249.99

KAT-1 HF marine auto ant tuner ...spec order 569.99

## KESTER (KES)

82-5000-0004 .5 oz 60/40 solder, .040 dia .. \$ 2.99

## KLEINHUIS (KLE)

1309 Isolated grounding bar ..... \$ 14.99

## KOSS (KOS)

KTX/8 Collapsible stereophone w/vol control ... \$ 14.99

QZ/5 Passive noise reduction stereophone .... 49.99

QZ/50 Active noise reduction stereophone .... 49.99

QZ/99 Noise reduction stereoph w/mono sw . 59.99

QZ/2000 Active noise reduction stereophone .. 99.99

Y-88 Dual stereophone Y-adapter ..... 4.99

## LDG (LDG)

AT-100Pro 160-6m 1-125w/100w 6m auto tuner \$199.99

AT-200Pro 160-6m 5-250w/100w 6m auto tuner 229.99

RBA-1:1 Remote 1:1 balun ..... 30.99

RBA-4:1 Remote 4:1 balun; long/random/end fed 30.99

AT-200PC 160-6m 5-250w/100w 6m PC ctl tuner 239.99

RBA-1:1 Remote 1:1 balun ..... 30.99

RBA-4:1 Remote 4:1 balun; long/random/end fed 30.99

AT-897 Bolt-on auto tuner for Yaesu FT-897 .. 199.99

RBA-1:1 Remote 1:1 balun ..... 30.99

RBA-4:1 Remote 4:1 balun; long/random/end fed 30.99

AT-7000 Tuner; IC7000/706/703/718/746/756 169.99

RBA-1:1 Remote 1:1 balun ..... 30.99

RBA-4:1 Remote 4:1 balun; long/random/end fed 30.99

AT-1000 1000w PEP HF/100w 6m auto tuner D 499.99

AT-1000Pro 1000w PEP HF/250w 6m auto tuner 549.99



## LDG - continued

<b>Icom-IC1</b>	Icom 10' interface cable for tuner	19.99
<b>Icom-IC2</b>	Icom 8" interface cable for tuner	8.99
<b>DTS-4</b>	4-pos HF/6m 1500/250w ant switch	79.99
<b>DTS-4R</b>	Remote control for DTS-4	39.99
<b>DTS-6</b>	6-pos HF/6m 1500/250w ant switch	99.99
<b>DTS-6R</b>	Remote control for DTS-6	49.99
<b>Z-11Pro</b>	160-6m .1-125w/100w 6m auto tuner	179.99
<b>RBA-1:1</b>	Remote 1:1 balun; short random	30.99
<b>RBA-4:1</b>	Remote 4:1 balun; long/random/end fed	30.99
<b>Z-100</b>	160-6m .1-125w/50w 6m auto tuner	149.99
<b>RBA-1:1</b>	Remote 1:1 balun; short random	30.99
<b>RBA-4:1</b>	Remote 4:1 balun; long/random/end fed	30.99
<b>DM-7800</b>	Dual 4.5" meters for IC-7800	179.99
<b>FT-METER</b>	Multi-function meter for FT-857/897	49.99
<b>MULTI-DC</b>	12vdc distribution box	49.99
<b>RCA-14</b>	Transceiver cable breakout box	59.99
<b>TW-1</b>	160-6m 2kw PEP talking wattmeter/SWR	149.99
<b>TW-2</b>	6m-440 250w PEP talking wattmeter/SWR	149.99

## LA CROSSE (LAC)

<b>EA-3010</b>	Handheld wind indicator	\$ 49.99
<b>IR-101</b>	Infra-red thermometer	49.99
<b>WS-1612CH-IT</b>	Professional wireless WX stn	139.99
<b>WS-2010-13</b>	PC interface/soft; WS-2010 ..D	39.99
<b>WS-3610UCH</b>	Professional wireless WX stn D	269.99
<b>WS-7013U</b>	Wireless temperature station	14.99
<b>WS-7013BZ</b>	Wireless temperature station	19.99
<b>WS-7014CH</b>	Wireless forecast station	49.99
<b>WS-7394U-CH-IT</b>	Wireless forecast station	69.99
<b>WS-8117U-Oak</b>	Atomic clock/in/out temp/moon D	39.99
<b>WS-8117U-IT-Oak</b>	Atomic clock/in/out temp/moon	46.99
<b>WS-8025AL</b>	Dlx sun/moon wireless WX stn D	99.99
<b>WS-8035U-SAL-IT</b>	Dlx wireless forecast stn	89.99
<b>WS-9004U-IT</b>	Wireless rain gauge	29.99
<b>WS-9016TWC</b>	Sun/moon wireless weather stn D	69.99
<b>WS-9023U-IT</b>	Wireless temperature/humidity	29.99
<b>WT-3102S</b>	10" 12-hour analog atomic clock	19.99
<b>WT-5120</b>	Projection alarm/out temp/in humidity	39.99
<b>WT-5431</b>	Projection alarm w/remot temp ..D	29.99
<b>TX-3U</b>	Extra temp sensor w/LCD; WT5431 Δ	6.99

## LAKEVIEW (LAK)

<b>9175</b>	75m 7' Hamstick antenna	\$ 39.99
<b>9160</b>	60m 7' Hamstick antenna	39.99
<b>9140</b>	40m 7' Hamstick antenna	39.99
<b>9130</b>	30m 7' Hamstick antenna	39.99
<b>9120</b>	20m 7' Hamstick antenna	39.99
<b>9117</b>	17m 7' Hamstick antenna	39.99
<b>9115</b>	15m 7' Hamstick antenna	39.99
<b>9112</b>	12m 7' Hamstick antenna	39.99
<b>9110</b>	10m 7' Hamstick antenna	39.99
<b>9106</b>	6m 4.5' Hamstick antenna	39.99
<b>901</b>	Dipole mount for 2 Hamsticks	19.99
<b>IM-1</b>	Inducti-match for 75-12m mobile ant	26.99
<b>TM-1</b>	License plate mount, 3/4-24	49.99

## LARSEN/PULSE (LAR)

<b>27-31 MHz ANTENNA</b>		
<b>NMO-27B</b>	10m black ant only (no mount)	\$ 36.99
<b>NMO-27C</b>	10m ant only (no mount)	32.99
<b>47-54 MHz ANTENNA</b>		
<b>NMO-50B</b>	6m black ant only (no mount)	\$ 36.99
<b>NMO-50C</b>	6m ant only (no mount)	32.99
<b>144-174 MHz ANTENNAS</b>		
<b>NMO-150B</b>	2m black ant only (no mt), 3 db	\$ 33.99
<b>NMO-150C</b>	2m ant only (no mount), 3 db	30.99
<b>OM-150CK</b>	2m no ground plane antenna	69.99
<b>440-460 MHz ANTENNAS</b>		
<b>NMO-440B</b>	440 black ant only (no mt), 3.4db D	\$ 34.99
<b>NMO-440C</b>	440 ant only (no mount), 3.4db	29.99

## Larsen - continued

<b>890-960 MHz ANTENNA</b>		
<b>NMO-900B</b>	900 black ant only (no mt), 3.4db	\$ 39.99
<b>NM-2/70PL</b>	2m/440 0/1.8db mag mt ant	64.99
<b>NMO-2/70B</b>	2m/440 blk ant only (no mt), 1.6/3.5db	79.99
<b>NMO-2/70-SH</b>	2m/440 ant (no mt), 0/1.8db	49.99
<b>NMOQ-Spec</b>	136-960 MHz 1/4 wave ant (no mt)	9.99
<b>NMOQ-Spec-B</b>	136-960 black 1/4 ww ant (no mt)	15.99
<b>NMOQ-Spec-K</b>	136-960MHz 1/4 ww 3/4" hole ant	24.99
<b>GPS-NM002</b>	GPS NMO mount ant (no mt)	69.99
<b>NMO-150450S</b>	3-band scanner ant (no mt)	29.99
<b>ON GLASS ANTENNAS</b>		
<b>KG-144-UD-PL</b>	2m on glass antenna	\$ 89.99
<b>KG-440-UD-PL</b>	440 on glass antenna	49.99
<b>KG-2/70-CX-PL</b>	2m/440 on glass antenna	139.99
<b>KG-Reinstall</b>	Reinstall kit for KG-ants	9.99

## KULDUCKIES - For Hand-helds

<b>KD4-2/70</b>	2m/440 9" BNC Kulduckie	\$ 39.99
<b>KD4-146-HQ</b>	2m 10.5" BNC Kulduckie	25.99
<b>KD14-2M-HW</b>	2m 44.5" BNC telescopic whip	38.99
<b>KD14-445</b>	440 6.5" BNC Kulduckie	19.99

## ACCESSORIES

<b>BSA-K</b>	144-512MHz base mtg kit; NMO/UHF ant	\$ 53.99
<b>HP-34</b>	3/4" hole plugs (5)	3.99
<b>NMO-B38</b>	NMO mt hdw/A-7 NLA adapter ..D	9.99
<b>NMO-CAP-B</b>	Black rain cap for NMO mount	5.99
<b>NMO-K</b>	3/4" hole mt w/coax for NMO ant	15.99
<b>NMO-KHF-UD</b>	3/4" NMO hole mt/coax (less plug)	12.99
<b>NMO-MMR</b>	Round mag mt, coax for NMO ant	32.99
<b>NMO-TLP</b>	Low profile tng lid mt, coax; NMO ant	29.99
<b>PO-K</b>	Roof mt, coax for SO-239 ant	32.99
<b>PO-MM</b>	Magnet mt, coax for SO-239 ant	36.99
<b>RG-SS</b>	Extra super seal NMO gaskets (3)	5.99
<b>SPRING</b>	Shock spring	10.99
<b>TMB-34</b>	Trunk mtg bkt for NMO antenna	5.99
<b>TMB-34B</b>	Black trunk mtg bkt for NMO ant	7.99
<b>W-2/70B</b>	2m/440 black replacement mobile whip	29.99
<b>W-KG2/70</b>	2m/440 replacement on glass whip	29.99
<b>W-490</b>	49" replacement moible whip	9.99
<b>W-490B</b>	Black 49" replacement mobile whip	12.99

## LIDO (LID)

<b>LM-400EXP</b>	WindowMate mt w/express holder	\$ 19.99
<b>LM-600</b>	LoBoy low profile universal mt/swivel	19.99
<b>LM-700</b>	Ultimount univ mt; radio control heads	24.99
<b>LM-800EXP</b>	Cup holder mt w/express mount	19.99
<b>LM-900BG</b>	Bug Mount; dash/console/windshield	19.99

## LIGHTWAVE (LIG)

<b>LW-HT</b>	4 LED/3 AA-cell illuminator head torch	D \$ 24.99
<b>LW-PB</b>	1 LED/2 lith-cell pocket flashlight	..D 9.99
<b>LW-2000</b>	4 LED/3 AA-cell flashlight	..D 19.99
<b>LW-3000</b>	7 LED/3 C-cell flashlight	..D 29.99
<b>LW-4000</b>	10 LED/3 D-cell flashlight	..D 39.99

## LOGSAT (LOG)

<b>Logsat Professional</b>	Satellite tracking CDROM	\$ 69.99
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## LOSI (LOS)

<b>A0014</b>	XXX-4 4WD electric Competition buggy kit	D \$129.99
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## M<sup>2</sup> (MSQ)

<b>6M-3SS</b>	6m 6.06db 3el 5' 9" boom beam	..... \$141.99
<b>6M-3</b>	6m 50-50.6 or 51-54 6.4db 3el 6' 9" bm beam	170.99
<b>6M-5X</b>	6m 50-50.5 or 51-54 9.4db 5el 18' bm beam	283.99
<b>6M-7JHV</b>	6m 50-50.4 10.9db 7el 30' 8"bm beam	351.99
<b>6M-HO-LOOP</b>	6m 50-50.3 4.4db horiz loop ant	129.99
<b>6" x 1/2"</b>	3/8-24 mobile mast for loop	12.99
<b>16" x 1/2"</b>	3/8-24 mobile mast for loop	14.99
<b>18" x 5/8"</b>	3/8-24 mobile mast for loop	19.99
<b>36" x 1/2"</b>	3/8-24 mobile mast for loop	31.99
<b>50" x 1/2"</b>	3/8-24 mobile mast for loop	35.99
<b>Mast/Top Bkt</b>	Top bracket for mast; HO stack	21.99

## M<sup>2</sup> - continued

<b>2M-3SS</b>	2m 6.16db 3el 3' boom beam	..... 73.99
<b>2M-4</b>	2m 7.5db 4el 4' boom beam	..... 129.99
<b>2M-7</b>	2m 10.3db 7el 8' 10" boom beam	..... 144.99
<b>2M-9SSB/FM</b>	2m SSB or FM 12db 9el 14' 6" boom	..... 168.99
<b>2M-12</b>	2m 12.8db 12el 19' 6" boom beam	..... 226.99
<b>2M-5WL</b>	2m 14.8db 17el 33' boom beam	..... 283.99
<b>2M-18XXX</b>	2m 144-146 15.3db 18el 36' 3"bm beam	..... 328.99
<b>2M-CP14</b>	2m 10.3db 7h/7v 10' 6"bm circ beam	..... 226.99
<b>2M-CP22</b>	2m 12.5db 11h/11v 18' 6"bm circ beam	..... 329.99
<b>PS-2M</b>	2m polarity switch; circ pol beam	..... 201.99
<b>FG X-Boom Kit</b>	For circular antennas, etc.	..... 186.99
<b>2M-HO-LOOP</b>	2m 144-144.5 4.86db horiz loop	..... 56.99
<b>6" x 1/2"</b>	3/8-24 mobile mast for loop	..... 12.99
<b>16" x 1/2"</b>	3/8-24 mobile mast for loop	..... 14.99
<b>18" x 5/8"</b>	3/8-24 mobile mast for loop	..... 19.99
<b>36" x 1/2"</b>	3/8-24 mobile mast for loop	..... 31.99
<b>50" x 1/2"</b>	3/8-24 mobile mast for loop	..... 35.99
<b>Big-Foot</b>	4x-mag mt; 2M-HO-LOOP stack/etc	..... 129.99
<b>MAG-KIT</b>	Magnet mt kit; single 2m-HO-LOOP	..... 28.99
<b>Mast/Top Bkt</b>	Top bracket for mast; HO stack	..... 21.99
<b>STACK-KIT</b>	Stack kit for 2m-HO-LOOP's	..... 80.99
<b>EB-144/RK-2M</b>	2m Eggbeater w/reflector kit	..... 241.99
<b>222-5SS</b>	222-225 8.16db 5el 3' boom beam	..... 85.99
<b>222-7EZ</b>	220 9.8db 7el 5' 8" boom beam	..... 119.99
<b>222-10EZ</b>	220 12db 10el 9' 9" boom beam	..... 134.99
<b>222-5WL</b>	220 15.2db 15el 23' 3" boom beam	..... 226.99
<b>222-7WL</b>	220 16.2db 17el 32' 5" boom beam	..... 283.99
<b>222-HO-LOOP</b>	220-224 4.75db horiz loop ant	..... 56.99
<b>6" x 1/2"</b>	3/8-24 mobile mast for loop	..... 12.99
<b>16" x 1/2"</b>	3/8-24 mobile mast for loop	..... 14.99
<b>18" x 5/8"</b>	3/8-24 mobile mast for loop	..... 19.99
<b>36" x 1/2"</b>	3/8-24 mobile mast for loop	..... 31.99
<b>50" x 1/2"</b>	3/8-24 mobile mast for loop	..... 35.99
<b>MAG-KIT</b>	Magnet mt kit; single 222-HO-LOOP	..... 28.99
<b>Mast/Top Bkt</b>	Top bracket for mast; HO stack	..... 21.99
<b>440-6SS</b>	420-450 8.86db 6el 3' boom beam	..... 72.99
<b>420-50-11</b>	432 11.3db 11el 5' bm rear mt beam	..... 129.99
<b>440-18</b>	432 14.5db 18el 11' 4" boom beam	..... 159.99
<b>440-21ATV</b>	432 15.9db 21el 14' 6" bm ATV beam	..... 201.99
<b>436-CP30</b>	432 14.5db 15h/15v 9' 9"bm circ beam	..... 329.99
<b>436-CP42UG</b>	432 16.8db 21h/21v 18' 10"bm circ	..... 387.99
<b>PS-70CM</b>	432 polarity switch; circ pol beam	..... 201.99
<b>FG X-Boom Kit</b>	For circular antennas, etc.	..... 186.99
<b>432-9WL</b>	432 17.3db 28el 21' boom beam	..... 244.99
<b>432-HO-LOOP</b>	430-436 5db horiz loop ant	..... 56.99
<b>6" x 1/2"</b>	3/8-24 mobile mast for loop	..... 12.99
<b>16" x 1/2"</b>	3/8-24 mobile mast for loop	..... 14.99
<b>18" x 5/8"</b>	3/8-24 mobile mast for loop	..... 19.99
<b>36" x 1/2"</b>	3/8-24 mobile mast for loop	..... 31.99
<b>50" x 1/2"</b>	3/8-24 mobile mast for loop	..... 35.99
<b>Big-Foot</b>	4x-mag mt; 432-HO-LOOP stack/etc	..... 129.99
<b>MAG-KIT</b>	Mag mt kit; single 432-HO-LOOP	..... 28.99
<b>STACK-KIT-70CM</b>	Stack kit; 2 432-HO-LOOP's	..... 80.99
<b>EB-432/RK-70CM</b>	432 Eggbeater w/reflector kit	..... 226.99
<b>23CM-22EZA</b>	1.2GHz 16db 22el 5' 2" bm beam	..... 170.99
<b>23CM-35</b>	1.2GHz 18.4db 35el 10' bm beam	..... 226.99
<b>2M-2-Port-PD</b>	2m 2-port type N power divider	..... 79.99
<b>2M-4-Port-PD</b>	2m 4-port type N power divider	..... 122.99
<b>70CM-2-Port-PD</b>	432 2-port N power divider	..... 79.99
<b>23CM-2-Port-PD</b>	1.2GHz 2-port N power divider	..... 79.99
<b>OR-2800PDC</b>	35 sq ft azimuth rotor/control/8-wire	..... 1598.99

## MFJ (MFJ)

### ANTENNA TUNERS

<b>9982</b>	2.5kw continuous w/roller inductor	..... \$649.99
<b>989D</b>	Dlx 1.5kw PEP w/roller inductor	..... 329.99
<b>986</b>	3kw PEP w/roller inductor	..... 309.99
<b>962D</b>	1.5kw PEP/meter/switch/balun/roller ind	..... 259.99
<b>969</b>	HF & 6m 300w roller inductor tuner	..... 189.99
<b>949E</b>	300w/PEP meter/dummy/switch/balun	..... 159.99
<b>948</b>	300w/meter/switch/balun	..... 139.99



## MFJ - continued

## AES Price

941E	300w tuner w/meter, switch, balun	119.99
945E	300w tuner w/meter plus 6m	109.99
20	Mobile bracket for 945E	6.99
901B	Versa Tuner 200w ant tuner	89.99
910	80-10m mobile antenna matcher	24.99
16010	200w random wire tuner	59.99
974B	3.5-54MHz balanced line ant tuner	169.99
974HB	1.8-54MHz balanced line ant tuner	189.99
991	150w automatic antenna tuner	139.99
991B	150w automatic antenna tuner	209.99
993B	300w deluxe automatic antenna tuner	249.99
994B	600w automatic antenna tuner	339.99
1316	12vdc 1.5A adapter; auto tuners	21.99
5124A	Alinco interface cable; auto tuners	14.99
5124I	Icom interface cable; auto tuners	19.99
5124K	Kenwood interface cable; auto tuners	59.99
5124Y	Yaesu interface cable; auto tuners	59.99
998	1.5kw automatic antenna tuner	649.99
1316	12vdc 1.5A adapter; auto tuners	21.99
5114I	Icom interface cable	19.99
5114K	Kenwood interface cable	19.99
5114Y	Yaesu interface cable	19.99
902	80-10m 150w travel tuner	89.99
903	6m antenna tuner	59.99
906	6m antenna tuner w/wattmeter	89.99
914	Auto tuner extender	69.99
921	2m/220 300w PEP tuner/SWR/wattmeter	79.99
924	440 MHz 300w PEP tuner/SWR/wattmeter	79.99
934	300w tuner w/artificial ground	189.99

## MEMORY KEYS

451	Dedicated CW keyboard w/memory	\$109.99
452	CW keyboard/keyer w/disp/keyboard	139.99
452X	CW keyboard/keyer w/disp, no keyboard	109.99
498	DLX CW keyboard/keyer w/disp/keyboard	89.99
490	492 keyer/Benchner paddle combo	199.99
490X	492 keyer for use w/Benchner or 564	109.99
564	Deluxe iambic chrome paddle for 490X	69.99
564B	Deluxe iambic black paddle for 490X	69.99
492	192 char menu driven memory keyer	109.99
495	Millennium memory keyer	169.99
5409	9-pin serial port 6' cable for 493	.69

## ELECTRONIC KEYS

401D	Econo keyer	\$ 59.99
407D	Deluxe electronic keyer	69.99

## KEYER/PADDLES

422D	Keyer/Benchner paddle combination	\$179.99
422DX	Keyer only	89.99
441	SlimLine econo keyer	69.99
442	SlimLine keyer/Benchner paddle combo	159.99
447	SlimLine deluxe keyer	89.99
564	Deluxe iambic chrome paddle	69.99
564B	Deluxe iambic black paddle	69.99

## COMPUTER INTERFACES

1224	Computer Interface	D \$ 89.99
1285	Software for IBM; 1224	D 14.99
48	1278 upgrade for 1278B	Δ 24.99
781	DSP filter for any TNC or controller	Δ 19.99
1214PC	Multimode interface for IBM	Δ 139.99
1272B	TNC to microphone interface	Δ 49.99
1272BYH	TNC/mic switch; KAM HF	Δ 39.99
1272BYV	TNC/mic switch; KAM VHF	Δ 39.99
1272M	TNC/mic RJ-45 switch; MFJ/PK-900	Δ 49.99
1272MYV	TNC/mic RJ-45 sw; KAM VHF; KPC3	Δ 49.99
1284M	3 1/2" IBM starter pack	D .69
1284W	MFJCOM for Windows	Δ 24.99
1289W	Multicom for Windows with cable	Δ 44.99
1289WD	Multicom for Windows, less cable	Δ 39.99

## SSB/CW FILTERS

751B	Super tunable CW audio filter	\$ 79.99
752C	Dual tunable SSB/CW filter	99.99

## MFJ - continued

## AES Price

784B	Deluxe tuneable DSP filter	249.99
5184	Cable pack for 784B	9.99
<b>PHONE PATCH</b>		
624D	Phone patch w/audio VU meter	\$129.99
<b>DUMMY LOADS</b>		
250	2kw PEP dummy load w/oil	\$ 69.99
250X	2kw PEP dummy load, less oil	49.99
21	1 gal industrial xfmr oil for wet dummy	29.99
260C	300w 0-650 MHz dry dummy load	39.99
260CN	300w 0-650 MHz type N dry dummy	49.99
264	1.5kw 0-650 MHz dry dummy load	74.99
264N	1.5kw 0-650 MHz type N dry dummy	84.99
267	1.8-60 100w dry dummy load/SWR/wattmeter	159.99

## SWR/WATTMETERS

812B	144-220 MHz SWR/FS/wattmeter	\$ 39.99
815C	160-10m cross-needle SWR/wattmeter	89.99
816	1.8-30 MHz toroidal SWR/wattmeter	39.99
817C	2m/220/440 cross needle meter	99.99
841	2m 5w in-line HT wattmeter/SWR	49.99
844	Compact 2m/440 SWR/wattmeter	79.99
860	1.8-60 MHz cross-needle meter	49.99
862	2m/220/440 cross-needle meter	59.99
864	1.8-60MHz/2m/440 cross needle meter	89.99
868	HF 6.5" diagonal PEP SWR/wattmeter	139.99
870	1.6-60MHz Grandmaster SWR/wattmeter	99.99
872	1.8-200MHz Grandmaster SWR/wattmeter	99.99
873	125-525MHz Grandmaster SWR/wattmeter	119.99
874	1.8-525MHz Grandmaster SWR/wattmeter	129.99

## SHORTWAVE ACCESSORIES

306	Car radio SWL converter	\$ 99.99
956	LW/MW/SW preselector/tuner	59.99
959C	SW receiver ant tuner w/preamp	109.99
1020C	.3-30 MHz indoor active receive ant	89.99
1022	300KHz-200MHz active rcv antenna	59.99
1024	.05-30 MHz outdoor active rcv ant	139.99
1040C	Deluxe receiver preselector	109.99
145C	Receiver preselector	79.99

## BOOKS

30	Golden Classics book	\$ 14.95
32	Packet Made Easy book	12.95
33	Mobile Handbook	14.95
36	Shortwave Listeners Guide; Apts/Condos	12.95
37	Ham Communications Circuit Files book	12.95
38	Easy-up Antennas book	19.95
3036	The Packet Radio Operators book	14.95
3101	Fox Hunt Adventure book	9.95
3211	Technician license guide	11.95
3213	General license guide	11.95
3301	Troubleshooting Antenna & Feedlines book	14.95
3302	73 Dipole and Long-Wire Antennas	14.95
3303	73 Vertical, Beam, and Triangle Ants	14.95
3305	Antennas & Transmission Lines book	19.95
3400	Morse Code: Breaking the Barrier	19.95
3502	Solid State QRP Projects	12.95
3504	FET Principles, Experiments & Projects	16.95
3506	Ferromagnetic-Core Design book	19.95
3507	Practical RF Design Manual	19.95
3509	Ladder Crystal Filters	19.95

## CLOCKS

105C	24-hour quartz wall clock	\$ 24.99
107B	24-hour digital clock	12.99
108B	24/12-hour dual disp digital clock	21.99
112B	Deluxe world map clock	29.99
113	24/12-hr 1.8" LED clock/batt back-up	19.99
118	Giant 24/12 hour LCD clock	29.99
123	Eternity solar atomic clock	D 69.99
123B	Eternity solar atomic clock	79.99
125	Calendar 24-hour analog wall clock	34.99

## ANTENNAS

343	1 1/2" hole mount for 3/8-24 whip	\$ 9.99
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## MFJ - continued

## AES Price

1402	2m/440 0/3db 16.5" 100w ant only	34.99
1412	2m/440 3/5.5db 40" 200w ant only	49.99
1422	2m/440 3.2/5.7db 41.5" 150w ant only	49.99
1432	2m/440 5/7.6db 62.5" 150w ant only	69.99
1436	6m/2m/440 2.15/4.5/7.2db 59" ant only	79.99
333BM	3.5" HiFlux NMO mag mt; not 1436	14.99
333BS	3.5" HiFlux SO-239 magt mt not 1436	14.99
335BM	5" HiFlux NMO mag mt; not 1436	21.99
335BS	5" HiFlux SO-239 mag mt; not 1436	21.99
340	Mirror/luggage pipe clamp mount	34.99
345S	Trunk/hatchback lip mt SO-239 mt	34.99
1516	2m 15' vertical base antenna	99.99
1621	40-10m 54" portable ant w/tuner	99.99
1622	40-2m apartment antenna	99.99
1624	40-6m mini bugcatcher antenna	79.99
1661	40-6m portable manual screwdriver ant	129.99
1664	80-6m portable manual screwdriver ant	159.99
1710	2m 3/4 wave telescopic BNC antenna	9.99
1712	2m/440 telescopic BNC antenna	14.99
1712S	2m/440 telescopic SMA antenna	14.99
1713	2m/440 SuperFlex Thin Duk HT ant	19.99
1713S	2m/440 SuperFlex SMA Thin Duk ant	19.99
1714	2m 3/4 wave telescopic BNC antenna	16.99
1715	2m/440 SuperFlex gain Thin Duk HT ant	24.99
1715S	2m/440 SuperFlex gain SMA Thin Duk	24.99
1716	2m/440 duck for HT	16.99
1716S	2m/440 SMA duck for HT	16.99
1717	2m/2.15db 440 duck for HT	21.99
1717PL	2m/440 foldover flexi-duck, PL-259	24.99
1717S	2m/2.15db 440 SMA duck for HT	21.99
1719	2m/440/1.2GHz BNC Midget Duck	19.99
1719S	2m/440/1.2GHz SMA Midget Duck	19.99
1720S	6m/2m/440 SMA Duck	29.99
1721	2m HT UltraLite mag mt antenna	15.99
1722	2m/440 HT UltraLite mag mt BNC ant	19.99
1724B	2m/440 magnet mt antenna	19.99
1728B	6m 3/4 wv/2m 3/4 wv mag ant/PL259/BNC	29.99
1729	2m/440 magnet mt antenna	34.99
1730	2m pocket roll-up vertical antenna	24.99
1734	2m/440 2.6/6.3db glass mt antenna	44.99
1736	6m J-Pole travel antenna	29.99
1738	2m 2.6db glass mt antenna	34.99
94	Remount kit for 1734/1738	4.99
1740	2m 1/4 wave ground plane ant	24.99
1750	2m 3/4 wave ground plane ant	29.99
1752	220 3/4 wave ground plane ant	29.99
1754	2m/440 ground plane antenna	34.99
1762	6m 6db 3 el 6' boom beam	89.99
1763	2m 3el portable beam	49.99
1764	2 & 6m dual 3/4 super gain base ant	54.99
1768	2m/440 4/7 el beam antenna	89.99
1778	G5RV 160-10m 102' ant (needs tuner)	39.99
1786	Super Hi-Q 10-30 MHz loop/dlx control	399.99
1788	Super Hi-Q 40-15m loop/dlx controller	449.99
1796	40/20/15/10/6/2m 10' vertical ant	209.99
1798	80/40/30/20/17/15/12/10/6/2m 20' vert	279.99
1800	2.4GHz wi-fi 16 element 15db beam	29.99
5606SR	6' N male - rp-SMA female cbl for 1800	24.99
1899T	80-6m telescopic antenna; FT-817	69.99
1910	33' telescoping fiberglass mast	79.99
1954	3/8-24 10' telescopic whip	22.99
1956	3/8-24 12' telescopic whip	29.99
<b>CABLES</b>		
5020	MFJ TNC - Yae FT50R/compat	Δ \$ 14.99
5020YV	KAM VHF/KPC3 - Yae FT50R/compat	Δ 14.99
5022	MFJ TNC - Alinco/Standard HT cable	Δ .69
5022YV	KAM VHF/KPC3 - Alii/Sta HT cable	Δ 14.99
5024	MFJ TNC - Ico/Yae/Alii/RS HT cable	Δ 14.99
5024B	PK/PacComm/compat - Ico/Yae/RS	Δ 14.99
5024YV	KAM VHF/KPC3 - Ico/Yae/Alii/RS HT	17.99
5026	MFJ TNC - Kenwood HT cable	Δ 14.99



## MFJ - continued

## AES Price

5026YV	KAM VHF/KPC3 - Kenwood HT cable	17.99
5060	MFJ TNC - Ken/Yae acc 6-pin mini DIN	19.99
5060YQ	KPC9612 - Ken/Yae acc 6pin mini DIN	16.99
5060YV	KAM VHF/KPC3 - Ke/Ya acc 6pin mni DIN	21.99
5063	MFJ TNC - lcom HF acc 8-pin DIN	16.99
5063YH	KAM DIN HF - lcom HF acc 8-pin DIN	16.99
5064	MFJ TNC - lcom VHF acc 8-pin DIN	16.99
5064YQ	KPC9612 - lcom VHF 8-pin DIN	69
5065	MFJ TNC - lco IC-706 acc 13-pin DIN	16.99
5065YH	KAM HF - lco IC-706 acc 13-pin DIN	21.99
5065YV	KAM VHF - lco IC706 acc 13-pin DIN	21.99
5066	MFJ TNC - Kenwood HF acc 13-pin DIN	16.99
5066YH	KAM HF - Ken HF acc 13-pin DIN	16.99
5080	MFJ TNC - Yaesu 8-pin cable	14.99
5080M	MFJ TNC - Yaesu 8-pin modular	14.99
5080MYV	KAM VHF/KPC3 - Yae 2500M/7400H	14.99
5080YH	KAM HF port - Yaesu 8-pin cable	14.99
5080YV	KAM VHF/KPC3 - Yaesu 8-pin cable	17.99
5082	Open end - 8-pin mic cable	11.99
5084	MFJ TNC - lcom 8-pin cable	14.99
5084M	MFJ TNC - lcom 8-pin modular	14.99
5084MYV	KAM VHF/KPC3 - lcom 8-pin mod	17.99
5084YH	KAM HF port - lcom 8-pin cable	14.99
5084YV	KAM VHF/KPC3 - lcom 8-pin cable	14.99
5086	MFJ TNC - Kenwood/Alinco 8-pin cable	14.99
5086M	MFJ TNC - Kenwood 8-pin modular	14.99
5086MYV	KAM VHF/KPC3 - Ken 8-pin mod	17.99
5086YH	KAM HF port - Ken/Alf 8-pin cable	14.99
5086YV	KAM VHF/KPC3 - Ken/Alf 8-pin cable	17.99
5088M	MFJ TNC - Radio Shack 8-pin modular	14.99
5205	5-pin DIN open end cable	5.99
5208	Open end - lco HF/VHF acc 8-pin DIN	9.99
5213	Open end - Kenwood acc 13-pin DIN	11.99
5220R/5220	Open end - Yae FT50R/compat	9.99
5222	Open end - Ali split HT cable	9.99
5224	Open end - lco/Yae/Alf/RS HT cable	9.99
5268	Open end - modular phone plug cable	11.99
5412	IBM printer cable	9.99
5414	RS-232 6' cable DB-25M-9F	7.99
5429	Cable/adapt; RS-232 to USB w/drivers	24.99
5803/10	3' coax jumper cable	5.99

## RADIOS/TRANSCIVERS

8100K	Shortwave regenerative Rcvr kit	\$ 69.99
8100W	Shortwave regenerative Rcvr wired	99.99
8621	5w 2m data radio w/145.01 MHz	129.99
8621X2	5w APRS ready 2m data radio/144.39	169.99
4110	Portable AC power supply	59.99
5100	Data radio cable - MFJ/TAPR	14.99
5100YV	Data radio cable - KAM/KPC-3	14.99
5106	Open end - 6pin mini Ken/Yae cable	5.99
8708	4ch ham micro ATV transmitter	159.99
9015	5w 15m CW Xcvr	189.99
9020	5w 20m CW Xcvr	189.99
9030	5w 30m CW Xcvr	189.99
9040	5w 40m CW Xcvr	189.99
27	Handle for CW station	6.99
412	Plug-in Curtis keyer	49.99
726	Plug-in audio filter	49.99
971	200w portable ant tuner w/meter	109.99
1772	Portable 20m dipole	39.99
1774	Portable 40m dipole	39.99
4110	Portable AC power supply	59.99
4114	Rechargeable power pack	79.99
9402X	7w PEP 2m SSB Xcvr w/mic	269.99
9406X	10w PEP 6m SSB Xcvr w/mic	269.99
9410X	20w PEP 10m SSB Xcvr w/mic	259.99
9420X	20w PEP 20m SSB Xcvr w/mic	249.99
9440X	12w PEP 40m SSB Xcvr w/mic	249.99
9475X	12w PEP 75m SSB Xcvr w/mic	249.99
415B	CW adapter for 9420X/9440X	49.99
416	CW adapter for 9402X/9406X/9410X	49.99

## MFJ - continued

## AES Price

971	200w HF portable ant tuner w/meter	109.99
1770A	10m dipole for 9410X	39.99
1772	Portable 20m dipole	39.99
1774	Portable 40m dipole	39.99
4110	Portable AC power supply	59.99
4114	Rechargeable power pack	79.99
<b>ACCESSORIES</b>		
1306	6v 300ma adapter	\$ .69
1312D	12vdc 500ma adapter, 2.1mm plug	15.99
1316	12vdc 1.5A adapter	21.99
15	HamGear belt loop radio holder	14.99
16C01	Glazed ceramic end insulator	.99
18	HamGear chest harness/cargo pocket	29.99
92AA01	AA NiMH cell	2.99
92AA10	10-pack AA NiMH cells	24.99
201	1.5-250 MHz dip meter	129.99
202B	RF noise bridge	69.99
207	160-10m SWR analyzer	99.99
208	2m SWR analyzer	99.99
209	1.8-170 MHz SWR analyzer	139.99
212	MatchMaker tune up device	89.99
219B	SWR analyzer, 440 MHz/N/SO-239 adapt	119.99
224	2m FM signal analyzer	159.99
249B	1.8-170 MHz SWR analy/LCD counter	239.99
259B	1.8-170 MHz SWR analy/RF res meter	259.99
269	1.8-170+440 MHz SWR analy/RF res mtr	339.99
29C	Carrying case w/window; 209/249B/259B	24.99
39C	Carrying case w/window; 269	24.99
66	1.8-30/30-170 dip coils; 209/249B/259B	24.99
92AA10	10-pack 1300ma AA NiMH cells	24.99
98	Package of 39C/66/1312D for 269	60.99
98B	Package of 92AA10/39C/66/1312D for 269	88.99
99	Package of 29C/66/1312D; 209/249B/259B	60.99
99B	Package of 92AA10/29C/66/1312D; 209/249B/259B	88.99
99C	Package of 92AA10/1312D; 209/249B/259B/269	40.99
731	RFI filter for SWR analyzer	89.99
1312D	12vdc 500ma ps for SWR analyzers	15.99
270	Guardian Angel 400w PEP lightning protect	29.99
97	Gas tube plug for 270	9.99
281	ClearTone communications speaker	12.99
288I	Headset/mic; lcom/ADI/Sta/RS/older Yae	24.99
288K	Headset/mic for Kenwood	24.99
288Y	Headset/mic; lco Q7/Yae FT10/50/VX1	24.99
292I	Earph/mic; lco/older Yae/compatibles	17.99
292Y	Earphone/mic; lco Q7/Yae FT10/50/VX1	17.99
293I	Rubber flex earloop earbud/mic; lcom	24.99
293K	Rubber flex earloop earbud/mic; Kenwood	24.99
293Y	Rubber flex earloop earbud/mic; Yaesu	24.99
295I	Mini spkr/mic; lcom & compatible HT	16.99
295K	Mini spkr/mic; Kenwood & compatible HT	16.99
295Y	Mini spkr/mic; lco Q7/Yae FT10/50/VX1	16.99
297	Desk mic with flexible boom	69.99
5082	Open end - 8-pin mic cable for 297	11.99
5268	Open end - mod phone plug cbl; 297	11.99
5397I	Cable/8-pin for 297; lcom HF	17.99
5397K	Cable/8-pin for 297; Kenwood HF	17.99
5397Y	Cable/8-pin for 297; Yaesu HF	17.99
5397MX	Cable/modular for 297; lcom/Kenwood	17.99
5397MY	Cable/modular for 297; Yaesu	17.99
310	BNC HT antenna window mount clip	19.99
310S	SMA HT antenna window mount clip	19.99
336S	5" tri-mag mt for SO239 ant/17' coax	34.99
336T	5" tri-mag mt for 3/8-24 ant/17' coax	34.99
341M	17' antenna cable; NMO	19.99
341S	17' antenna cable; SO-239	19.99
382	Deluxe amplified communications spkr	39.99
388	Cyber Ear 12db ear amplifier	29.99
392B	Deluxe communication headphones	24.99
414	Professional Morse Tutor w/LCD	199.99
417	Code Tutor with QSO	59.99
418	Code Tutor with LCD display	89.99

## MFJ - continued

## AES Price

434B	Deluxe Voice Memory Keyer	179.99
73	Remote control head w/cbl; 434/434B	34.99
461	Pocket size Morse code reader	89.99
5161	DB-9 PC serial port cable	16.99
5162	Cable for radio external speaker	7.99
462B	RTTY/ASCII/CW/AMTOR Rcvr multi-reader	189.99
5162	Cable for radio external speaker	7.99
464	CW reader w/built-in keyer	179.99
550	Hand key	14.99
554	Deluxe CW practice oscillator	89.99
557	Code oscillator w/key	39.99
616	Speech intelligibility enhancer	179.99
1316	12vdc 1.5A adapter	21.99
281	ClearTone speaker (requires 2)	12.99
392B	Deluxe communication headphones	24.99
633	Rapid charger; NiMH/nicad AA/AAA/9V	29.99
662	Simplex pocket repeater	79.99
701	Toroid RFI filter	16.99
704	1kw low-pass filter	49.99
762	81db 170MHz BNC attenuator	79.99
801	Super compact field strength meter	24.99
802	Bipolar field strength meter	44.99
802X	Field strength/remote meter combo	69.99
805	RFI current detector meter	89.99
850B	AC line voltage monitor	24.99
852	AC power line noise finder meter	109.99
854	HF RFI current meter	109.99
886	1MHz - 3GHz pocket frequency counter	119.99
888	Deluxe 10Hz - 3GHz frequency counter	189.99
890	DX beacon monitor	109.99
912	W9INN remote balun	59.99
916B	2m/440 duplexer	34.99
931	Artificial ground unit	99.99
1025	Noise canceling antenna	159.99
1026	Deluxe noise canceling unit w/antenna	179.99
1046	1.6-33MHz receiver passive preselector	99.99
1048	1.6-33MHz Xcvr passive preselector	119.99
1112	Multiple DC outlet	39.99
1116	Dlx multiple DC outlet	54.99
1117	High current multiple DC outlet	59.99
1118	Dlx high current multiple DC outlet	79.99
1263	2mic in/2rig out switch/1 round cbl/1 modlr cbl	109.99
5397MX	Modular mic cable for 1263	17.99
1273B	Basic soundcard interface/soft; 8P-R	59.99
1273BM	Basic soundcard interface/soft; 8P-M	59.99
1275	Soundcard/rig interface/software; 8P-R	109.99
1275M	Soundcard/rig interface/software; 8P-M	109.99
1279	Super soundcard interface/soft; 8P-R	139.99
1279M	Super soundcard interface/soft; 8P-M	139.99
1700C	6-pos combo ant/xmtr switch/protect	99.99
1701	6-position coax switch	69.99
1702C	2-pos coax switch/lightning protect	34.99
1702CN	2-pos 1.1GHz N switch/lightning protect	39.99
1703	2-rig/2-antenna RF safety switch	24.99
1704	4-pos 500 MHz switch/lightning protect	74.99
1704N	4-position type N switch	79.99
1925	Controller; Yaesu ATAS-series/other rigs	69.99
1925I2	Controller; Yae ATAS-series/lco IC-706	69.99
4035MV	Dlx 30A adjustable ps, 35A surge	149.99
4103	Switching power supply; Yaesu FT817/etc	39.99
4125MV	MightyLite 22A 3.5 lb switch ps, 25A surge	109.99
4225MV	MightyLite 22A switch ps, 25A surge/meters	149.99
4245MV	MightyLite 40A switch ps, 45A surge/meters	199.99
4602	House window antenna feedthrough panel	59.99
4712	160-2m 2-pos remote antenna switch	79.99

## MAGELLAN (MAG)

SporTrak Color	Handheld color GPS/9MB	D \$169.99
980654-01	MapSend DirectRoute; Pro/Color D	39.99
980654-03	MapSend DirectRoute; Gold/Plat/Col D	39.99



## AES Price

### MAHA (MAH)

9V 8.4v 170mah 9v size NiMH battery .....	\$ 5.99
MH-96V200 9.6v 200mah 9v size NiMH battery .....	12.99
AAA-T 1.2v 650mah AAA size NiMH batt cell ea .....	2.99
AA-FB 1.2v 1400mah AA NiMH batt w/batts D,ea .....	1.69
MH-R-AA4 4pack 1.2v 2700mah AA NiMH cells .....	14.99
MH-96V200 9.6v 200mah 9v size NiMH batt .....	12.99
MH-101-11 Cgr/ko157/160/174/131/2Mah 132B/G D .....	.99
MHS-DC-124 Cig adapter; MH-C124S/C204F Δ .....	.19
MH-C777 Plus II Univ cgr/analy; lith/nicd/nimh .....	74.99
MH-C801D 1-8 AA/AAA NiMH/NiCD quick charger .....	84.99
MH-C888 Univ drop-in rapid cgr/cond; nicad/nimh .....	59.99
MHS-C800U External charger pin shell .....	.49
MHS-C801 Cup; T2/W32/TH22/79/FT10/50 .....	7.99
MHS-C803 Cup; Kenwood TH-D7A/G71A ....	7.99
MHS-C804 Cup; Icom IC-T8A/T81A .....	.69
MHS-C806 Cup; Ali 195/580/F1/G5/V5/etc .....	7.99
MHS-DC-777 Cig lighter cord .....	5.99
MH-C9000 4 AA/AAA NiMH WizardOne cgr/analyzer .....	69.99
MH-K5000 Quick cgr/conditioner w/4 AA2500 .....	39.99
MH-BP-7 13.2v 1000mah Icom nickel hydride .....	69.99
MH-BP-8 8.4v 1200mah Icom nickel hydride .....	59.99
MH-BP-83 7.2v 1300mah Icom nickel hydride .....	49.99
MH-BP-173 9.6v 650mah Icom nickel hydride .....	69.99
MH-BP-180 7.2v 1000mah Icom nickel hydride .....	49.99
MH-BP-199 6v 700mah Icom nick hyd/clip .....	19.99
MH-BP-200 9.6v 680mah Icom nick hydride/clip .....	59.99
MH-FNB-12 12v 1000mah Yaesu nickel hydride .....	59.99
MH-FNB-17 7.2v 1000mah Yaesu nickel hydride .....	49.99
MH-FNB-27 12v 900mah Yaesu nickel hydride .....	59.99
MH-FNB-38 9.6v 650mah Yaesu nickel hydride .....	59.99
MH-FNB-41 9.6v 1000mah Yae nick hyd/spg clip .....	55.99
MH-FNB-V47 7.2v 1800mah Yae nick hyd/spg clip .....	69.99
MH-FNB-V57 7.2v 1500mah Yae nickel hydride .....	49.99
MH-FNB-58LI 1200mah li-polymer; Yae VX5R .....	59.99
MH-FNB-72 9.6v 1700mah Yae nickel hydride .....	59.99
MH-PB-8 12v 1300mah Kenwood nickel hydride .....	62.99
MH-PB-17 12v 1300mah Kenwood nickel hydride .....	69.99
MH-PB-18 7.2v 1300mah Ken nick hyd; wall cgr only .....	49.99
MH-PB-32 6v 1000mah Kenwood nickel hydride .....	47.99
MH-PB-34 9.6v 1000mah Kenwood nickel hydride .....	57.99
MH-PB-39 9.6v 1050 mah Ken nickel hyd/clip .....	59.99
MH-PB-39H 6v 1800mah Ken nickel hyd/clip .....	59.99
MH-PB-42LI 1800mah li-polymer; Ken THF6A .....	69.99
MH-800K 500mw spkr/mic w/clip; Kenwood .....	19.99
MH-800S 500mw spkr/mic/clip; Ali/Ico/Sta/Yae .....	19.99
MH-800Y 500mw spkr/mic; Yae FT50/VX1R .....	24.99
MHS-K1 Ken 25/26/75/77 adapt; A301/302 ....	.09
MHS-K2 Ken TH22/79 adapter; A301/302 ....	.09
MHS-Y3 Yae FT11/41/51 adapt; A301/302 D .....	.09

### MALDOL (MAL)

AH-14 20m telescoping ant w/BNC; FT-817.D .....	\$ 45.99
AH-28 10m telescoping ant w/BNC; FT-817.D .....	39.99
AH-C14 20m loading coil only w/BNC; FT-817 D .....	24.99
AH-C21 15m loading coil only w/BNC; FT-817 D .....	24.99
AH-C28 10m loading coil only w/BNC; FT-817 D .....	24.99
AH-R Telescoping whip; AH-C7/14/21/28 D .....	17.99
AH-510R 6/2m/440 37" BNC tele whip; FT817/HT D .....	39.99
AH-W100RX 70-900MHz 40" tele BNC rcv ant .....	32.99
AS-20 2m/440 8.5" superflex SMA antenna ...	26.99
AS-25 2m/440 1" SMA antenna .....	19.99
AS-30 2m/440 15" 0/2.15db superflex SMA ant .....	29.99
AX-50 2m/440 0/5db 21" mobile antenna ....	49.99
AX-75 2m/440 3.2/5.7db 30" mobile ant .....	59.99
AX-95 2m/440 3.3/5.8db 38" mobile ant .....	66.99
EM-B80 Small trunk/hatch/van door lip mt .....	25.99
EM-5M Sm tnk/hatch mt (EM-B80) w/16.5'cbl .....	59.99
EX-104B 2m/440 black 0/2.15db 15" mob ...	44.99
EX-104BNMO 2m/440 blk 0/2.15db 15" NMO .....	44.99

## Maldol - continued

EX-107RB 2m/440 black 2.6/4.9db 29" mob .....	56.99
EX-107RBNMO 2m/440 blk 2.6/4.9db 29" NMO .....	56.99
EX-510B 6m/2m/440 blk 0/2.15/5.5db 37" mob .....	66.99
EX-510BNMO 6m/2m/440 blk 0/2.15/5.5db 37" NMO .....	66.99
FVS-50 Dlx 2-step 16' 9" cable w/UHF connects D .....	14.99
HMC-6S 20/15/10/6/2m/440 66" mobile ant .....	159.99
HMC-7C 40m loading coil for HMC-6S .....	34.99
HMC-35C 80/75m loading coil for HMC-6S .....	39.99
HVU-8 80/40/20/15/10/6/2m 8.6' vert w/radials .....	319.99
MH-209 2m/440 3" BNC duck .....	23.99
MH-209SMA 2m/440 3" SMA duck .....	23.99
MH-510 6m/2m/440 0/0.3.2db 20.75" SMA duck .....	37.99
MH-511 6m/2m/440 4" SMA duck .....	33.99
MH-610 2m/220/440 0/1.8/3.2db 14" SMA duck .....	49.99
MK-30H Motorized tnk lip/hatch/van door mt .....	109.99
MK-RR Roof rack bracket for MK-30H .....	19.99
PRM-T Large trunk/hatch/van door lip mt ....	33.99
SHG-140B 2m 4.1db 56" mobile antenna ...D .....	24.99
SHG-140BNMO 2m 4.1db 56" NMO mob ant D .....	24.99

## MEADOW RIDGE (CRO)

### SOLID COPPERWELD ANTENNA WIRE

AN-122 100 feet No. 12 .....	\$ 39.99
AN-123 150 feet No. 12 .....	49.99
AN-124 250 feet No. 12 .....	79.99
AN-126 500 feet No. 12 .....	139.99
AN-128 1000 feet No. 12 .....	239.99
AN-148 1000 feet No. 14 .....	D 169.99
AN-181 250 feet No. 18 .....	24.99
AN-182 500 feet No. 18 .....	39.99

## MIDLAND (MID)

18-258 On glass mount mobile CB antenna .....	\$ 19.99
21-406 Deluxe mobile speaker w/3.5mm plug .....	22.99
74-250C SAME handheld WX/hazard alert radio .....	49.99
WR-300 AM/FM/SAME WX/hazard alert radio/ps .....	59.99
AVP-5 Accs/bat/cgr/dcadpt/acadapt/headset/mt; NF-1 D .....	16.99
GXT-500VP4 22ch 5w GMRS/FRS hh/batts D,pair .....	69.99
GXT-650VP4 22ch 5w GMRS/FRS hh/batts .pair .....	79.99
LXT-210VP 22ch 2w GMRS/FRS hh/batts D,pair .....	39.99

## Miracle Antenna (MIA)

Ducker IL In-line HF rcv tuner; HH/QRP xmit .....	\$139.99
Miracle Whip 3.5-450MHz 57" QRP ant/tuner .....	139.99

## MIRAGE (MIR)

A-1015G 50-52 FM/SSB 10/150w amp/preamp .....	\$359.99
B-34 2m FM 2/35w amplifier; no mob bkt ....	89.99
B-34G 2m FM/SSB 2/35w amp/preamp .....	109.99
B-310G 2m FM/SSB 4/100w amp/preamp ....	209.99
B-320G 2m FM/SSB 50/200w amp/preamp ..	459.99
B-1018G 2m FM/SSB 10/160w amp/preamp .....	369.99
B-2518G 2m FM/SSB 25/160w amp/preamp .....	299.99
B-2530G 2m FM/SSB 25/300w amp/preamp .....	679.99
B-5018G 2m FM/SSB 50/160w amp/preamp .....	299.99
B-5030G 2m FM/SSB 50/300w amp/preamp ..	669.99
BD-35 2m/440 4/45/4/35w HT amp .....	159.99
B-24G 5/50w 2m HT dock boost amp/pre .....	109.99
MI-1 Ico 2G/02/2/23 adapter; B24G/BD25 D .....	.69
MI-3 Ico W21AT/X21AT adapt; B24G/BD25 Δ .....	7.99
MK-1 Ken 25/26/75/77 adapt; B24G/BD25 Δ .....	.49
MK-2 Ken 22/79 adapter; B24G/BD25 ....	7.99
MY-2 Yae 26/415/530 adapt; B24G/BD25 Δ .....	.99
C-22G 220 FM/SSB 2/20w amp/preamp ....Δ .....	149.99
C-211G 220 FM/SSB 2/110w amp/preamp ..Δ .....	299.99
C-1012G 220 FM/SSB 10/120w amp/preamp Δ .....	299.99
C-1022G 220 FM/SSB 10/220w amp/preamp .....	699.99
C-2512G 220 FM/SSB 25/120w amp/preamp .....	309.99
D-15N 430 FM/SSB/ATV 2/15w type N amp Δ .....	179.99
D-26N 440 FM/SSB 2/60w type N amplifier Δ .....	249.99
D-1010N 440 FM/SSB 10/100w type N amp .....	379.99

## AES Price

## Mirage - continued

## AES Price

D-3010N 440 FM/SSB 30/100w type N amp .....	349.99
D-1010-ATVN 430 ATV 10/100w type N amp .....	399.99
RC-1* Remote control head w/18" cable .....	49.99
*Not for B-23/C-22/D-26	
RC-2 Rem ctl head/cable; B-XX18G .....	49.99
<b>The following Repeater Amplifiers are Special Order. Specify SO-239 or type N connectors.</b>	
A-1015NR 6m FM 2/80w type N amplifier .....	\$549.99
A-1015R 6m FM 2/80w SO-239 amplifier .....	529.99
C-211NR 220 FM .5/80w type N amplifier ....	619.99
C-211R 220 FM .5/80w SO-239 amplifier .....	599.99
C-1012NR 220 FM 5/90w type N amplifier ....	619.99
C-1012R 220 FM 5/90w SO-239 amplifier .....	599.99
C-2512NR 220 FM 15/90w type N amplifier ..	589.99
C-2512R 220 FM 15/90w SO-239 amplifier ..	569.99
D-1010NR 440 FM 4/80w type N amplifier ...	629.99
D-1010-ATVN-R 430 ATV 4/80w type N amp ..	629.99
D-3010NR 440 FM 12/80w type N amplifier Δ ..	499.99
<b>PREAMPS</b>	
KP-1/6M 6m in shack N preamp .....	#139.99
KP-1/2M 2m in shack N preamp .....	139.99
KP-1/440 440 in shack N preamp .....	139.99
KP-2/6M 6m mast mount N preamp .....	184.99
KP-2/2M 2m mast mount N preamp .....	184.99
KP-2/440 440 mast mount N preamp .....	184.99

## NCG (NCG)

Power Pocket 12v 2AH lead acid belt batt/cgr .....	\$ 66.99
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## NCS (NCS)

NCS-3230 Multi-receiver receive console .....	\$349.99
NCS-1514 Wall power supply; NCS-3230 ...	24.99
NCS-P2PH35-A Multi-rx/spkr out set 6 cables .....	26.99
NCS-MRX2MS-A 3240 & 3230 interface cbl kit .....	49.99
NCS-3240 Multi-switcher audio device .....	299.99
NCS-1512 Wall power supply; NCS-3240 ...	12.99
NCS-LoZNC Underterminated interface cable ..	17.99
NCS-LoZ8PI-I Icom 8-pin interface cable .....	24.99
NCS-LoZRJ45-I Icom RJ-45 interface cable ..	23.99
NCS-LoZ8PI-K Kenwood 8-pin interface cable ..	24.99
NCS-LoZRJ45-K Kenwood RJ-45 interface cbl ..	23.99
NCS-LoZ8PI-Y Yaesu 8-pin interface cable .....	24.99
NCS-LoZRJ12-Y Yaesu RJ-12 interface cable ..	23.99
NCS-LoZRJ45-Y Yaesu RJ-45 interface cable ..	23.99

## Night Owl Optics (NOO)

NOXG-2 3x G2 night vision scope w/illuminator Δ .....	\$599.99
NOCA-42 Camera adapter .....	.99

## NORCOMM (NOR)

NC-101 Tunable CTCSS encoder .....	\$ 21.99
NC-104 Programmable CTCSS encoder .....	26.99
NC-106 Prog CTCSS encoder/decoder .....	67.99
NC-401 Sub-miniature DTMF decoder .....	69.99

## Oregon Scientific (ORE)

WMR-112A Wireless weather station .....	D \$ 99.99
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## OUTBACKER (OUT)

OB-8 75-10m 300w PEP 6' 8-band mobile ant .....	\$319.99
OB-8HP 75-10m 500w PEP 6' 8-band mob ant .....	329.99
OB-SB 75-10m 300w PEP split ant/storage bag .....	329.99
OB-8TRI 75-10m 300w PEP 3pc 6' port ant/bag .....	339.99
Joey 80-2m 20w antenna w/counterpoise ....	299.99
MicroMount Tripod system for Joey .....	49.99
OB-M 75/40/20/17/10m/HF marine 300w PEP 6' .....	449.99
Perth 75-10m 150w PEP 7.5' mobile ant .....	329.99
Perth Plus 75-10m+6m/2m 150w PEP 6' mob ant .....	329.99
Stealth Plus 75-10m+6/2m 100w PEP 4' ant .....	319.99
Outreach 160-10m 300w PEP 12' antenna ...	419.99
Outreach 500 80-6m 600w PEP 12' antenna ..	449.99
Outpost Base tripod mtg system for mobile ant .....	199.99



## Outbacker - continued AES Price

OB-SB ¾-24 spring and ½" hole base .....	129.99
Diamond K-400-3/8C ¾-24 trunk mt, 6' coax .....	73.99
Diamond C-110 10' ext cable; K-400-3/8C .....	15.99

## PDK Technologies (PDK)

LiteFlare 3-PK 3-pack red LiteFlare/carry bag .....	\$ 29.99
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## Palomar Engineers (PAL)

PT-340 Tuner-Tuner (use with ant tuner) .....	\$ 99.99
RFI-4 RF interference kit .....	25.99
VLF-A VLF converter; 10-500 KHz to 80m .....	99.99
VLF-S VLF conv; 10-500 KHz to 4-4.5 MHz ....	99.99

## PALSTAR (PLS)

AT-1KP 600w T-match differential tuner/crossneedle PEP .....	\$429.99
AT-4K 2.5kw T-match edgewound roller ind tuner .....	895.99
AT-5K 3.5kw T-match ceramic roller ind tuner .....	1195.99
AT-1500CV 750w T-match ceramic roller ind tuner .....	479.99
AT-1500DT 750w differential antenna tuner .....	479.99
AT-AUTO 1500w automatic antenna tuner ....	1295.99
BT-1500A 750w dual edgewound roller ind tuner .....	695.99
DL-2K 2000w 30MHz dummy load w/fan .....	199.99
ZM-30 1-30MHz antenna analyzer .....	399.99

## PAR (PAR)

SK-432 Type N stacking harness; OA-432 ....Δ	\$ 4.99
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## PENETROX (PEN)

Penetrox A 4 oz tube for antennas .....	\$ 14.99
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## POLYPHASER (PLY)

### LIGHTNING PROTECTION

IS-50NX-C2 125-1000 375/125/50w N flange .....	\$ 62.99
IS-50UX-C0 1.5-400 2kw/375/125w flange mt .....	62.99
IS-50UX-C1 50-700MHz 375/125w flange mt .....	62.99
IS-B50LN-C2 125-1000 375/125/50w N bulkhead .....	65.99
IS-B50LU-C0 1.5-400 2kw/375/125w bulkhead .....	65.99
IS-B50LU-C1 50-700 375/125w bulkhead mt .....	65.99
FB Adapter Flange to bulkhead mt adapter Δ .....	.99
PLD0-120US15A 120v 15A power protector .....	169.99
PLD0-120US20A 120v 20A power protector .....	199.99

IS-RCT 8-wire rotor control protector .....	99.99
J-1 ½" 1/2" to 1 1/3" bronze transition clamp ....	11.99
J-2 1 1/2" to 2 1/4" bronze transition clamp Δ .....	4.99
IX-1TW Single phone line protector .....	69.99

CS112-25 25' 1 1/2" copper strap .....	49.99
CS112-50 50' 1 1/2" copper strap .....	89.99
CS112-100 100' 1 1/2" copper strap .....	169.99
CS3-25 25' 3" copper strap .....	99.99
CS3-50 50' 3" copper strap .....	129.99
CU-SPGP Copper single point ground panel .....	179.99
TK-2 1 1/2" strap to Rohn twr corrosion free clamp .....	8.99
TK-3 1 1/2" strap-2 1/4" to 3 1/4" mast cor free clamp Δ .....	2.99
1C-112S #6-#1 wire to 1 1/2" strap clamp bond .....	31.99
58R-112S 1 1/2" strap to 5/8" gnd rod clamp bond .....	30.99

UNI-KIT 2TC Gnd kit; galv twr leg to copper Δ .....	14.99
UNI-KIT 2CC Ground kit; coax to copper .....	45.99
CCK Copper cleaning kit; 4 oz can, brush .....	28.99
LPGS Lightning Protection/Grounding book ...	20.00

## POWERWERX (POW)

AP0-3-PP Voltage/time controlled power switch .....	\$ 59.99
BT-Junior Battery Tender Junior charging sys .....	29.99
Cig-2-OEM-5-15A 5' 15A cig plug to T-male conn .....	14.99
Cig-2-PP-5-15A 5' 15A cig plug to Powerpole .....	14.99
CT-2 Crimp tool for 15/30/75A Powerpole .....	12.99
PP-2-OEM-5 5' Powerpole to T-male conn ....	14.99
PP-45-2Ring-10G 6' Powerpole to ring terms .....	13.99
PP-ATC-10-40A 10ga fuseholder/45A Powerpoles .....	14.99
PP-ATC-12-15A 12ga fuseholder/30A Powerpoles .....	12.99
PP-RB-30-10 10-pair 30A Powerpole connectors .....	9.99
PP-RB-30-25 25-pair 30A Powerpole connectors .....	19.99

## Powerwerx - continued AES Price

PP-RB-45-10 10-pair 45A Powerpole connectors .....	14.99
PP-RB-45-25 25-pair 45A Powerpole connectors .....	29.99
PP-RB-75-8-2 2-pr 75A Powerpole connectors/8 ga .....	7.99
PS-4 4-terminal 45A Powerpole splitter .....	14.99
PS-4 Plus 4-terminal 45A "X" Powerpole splitter .....	14.99
PS-6AA 8-terminal 45A Powerpole tap splitter .....	31.99
PS-8 8-terminal 45A Powerpole splitter .....	24.99
RB-12-25 25' 12ga red/black DC pwr zip cord .....	22.99
RB-14-25 25' 14ga red/black DC pwr zip cord .....	14.99
Ring-ATC-10-40A 10g fusehold/45A Powerpole/ring .....	14.99
Ring-ATC-12-15A 12g fusehold/30A Powerpole/ring .....	12.99
SOC-PP-1-15A 15A cig socket to Powerpole ...	14.99

## PREMIER (PRE)

AL-800 2m/440 34" BNC rubber duck ant ....	\$ 29.99
RD-2 2m/440 2" BNC duck .....	14.99
RD-2SMA 2m/440 2" SMA duck .....	15.99
RD-8 2m/440/900 6.5" BNC duck .....	14.99
RD-9 2m/440/900 7" BNC duck .....	18.99
RD-78 2m/440/900 15" BNC whip .....	19.99
RD-98 2m/440 17" BNC whip .....	24.99
RD-98SMA 2m/440 17" SMA whip .....	27.99
SPM-100 Spkr/mic; ADI/Alinco/Icom/Yaesu ...	32.99
SPM-101 Spkr/mic for Kenwood .....	32.99
SPM-102 Spkr/mic; Yaesu FT-50R/VX-1R/5R .....	32.99
SPM-400A Boom/mic; ADI/Alinco/Icom/Yaesu .....	41.99
SPM-402A Boom mic; Yae FT-50R/VX-1R/5R .....	41.99

## PRO AM by VALOR (VAL)

### ASTATIC MOUNTS

AST-MMK Heavy duty 3/8-24 magnet mt kit .....	\$ 29.99
AST-NMO NMO mounting adapter .....	6.99
AST-S0239 SO-239 mounting adapter .....	6.99
AST-TMK Universal 3/8-24 trunk mount kit ...	29.99
AST-NMO NMO mounting adapter .....	6.99
AST-S0239 SO-239 mounting adapter .....	6.99

### VHF/UHF ANTENNAS ONLY (No Mounts)

MO144-440 2m/440 antenna only .....	\$ 21.99
PAQA 136-515 MHz ¼ wave antenna only .....	10.99
PHB-144 2m ¾ wave 3 db antenna only .....	29.99

### MOUNTS ONLY FOR ABOVE ANTENNAS

PAMB Black low profile NMO mag mt w/coax .....	\$ 24.99
PAN38 ¾-24 antenna to NMO mt adapter .....	14.99
PAS ¾" NMO mount w/coax .....	19.99
PASMO ¾" NMO mt only (no coax) .....	7.99
PAT-2B Black no hole NMO trunk mt w/coax .....	19.99

### OTHER VHF/UHF ANTENNAS & MOUNTS

100ADN SO-239 horizontal mirror mt .....	\$ 10.99
101ADN HD alum mirror mt w/SO-239 .....	10.99
105ADT Heavy duty ¾" mount assembly .....	6.99
105HDT Heavy duty mount assembly .....	3.99
120 Sawtooth hump mt for mobile radios .....	9.99
301 4" low profile ¾-24 magnet mt w/coax .....	16.99
401 5" low profile ¾-24 magnet mt w/coax ..	19.99
407-18 18' RG59 Harness PL259-PL259 ....Δ	6.99
DAK-AD Mt for 2 vert ants or horizontal dipole .....	13.99
GM-144 2m 2.5db on glass antenna .....	39.99
GM-270 2m/440 2.6/6.3db on glass antenna .....	59.99
TGMKD On glass replacement mtg kit .....	8.99
MM-3401 Maxi-mag mt ¾-24/NMO kit (3-5" mags) .....	59.99
SS-100MOT 3-way NMO mirror mt w/coax ....	23.99
CX-144 2m ¾ wave 3db ¾-24 whip .....	19.99
HWTGSBNC 112-1.2GHz on-glass scanner ant/BNC .....	34.99
MM-270B 2m/440 micro mag mt ant w/BNC .....	19.99
PM-144-440BN 2m/440 BNC mag mt ant ....	29.99
PMM-3B Micro mag mt monitor ant w/BNC ..	19.99
VAA-002B 144-450 black ¼ wv mag mt ant ..	23.99
VAA-002BBN 144-450 black ¼ wv BNC mag ant .....	24.99

### MOBILE HF ANTENNAS (No Mounts)

PHF-160B 160m 8' ¾-24 whip .....	\$ 89.99
PHF-75B 75m 8' ¾-24 whip (4' coil, 4' whip) .....	29.99

## Pro Am - continued AES Price

PHF-40B 40m 8' ¾-24 whip (4' coil, 4' whip) .....	23.99
PHF-30B 30m 8' ¾-24 whip (4' coil, 4' whip) .....	23.99
PHF-20B 20m 8' ¾-24 whip (4' coil, 4' whip) .....	23.99
PHF-17B 17m 8' ¾-24 whip (4' coil, 4' whip) .....	23.99
PHF-15B 15m 8' ¾-24 whip (4' coil, 4' whip) .....	23.99
PHF-12B 12m 8' ¾-24 whip (4' coil, 4' whip) .....	23.99
PHF-10B 10m 8' ¾-24 whip (4' coil, 4' whip) .....	23.99
PHF-6B 6m 58" ¾-24 whip .....	23.99
103S Quick disconnect/5 twist lock connectors .....	24.99

### ASTATIC MOBILE HF ANTENNA (No Mount)

AST-6BTV 75/40/20/15/10/6m mobile ant ....	\$119.99
AST-GPK 3/8-24 mounting/ground plane kit .....	29.99

## QRZ (WAL)

Ham QRZ US & international calls plus programs .....	\$ 24.99
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## QSL Card Holders (ART)

QSL Card Holders, pack of 3, 20 cards/holder .....	\$ 18.99
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## RCA (RCA)

108/FC60 F-56 connector w/o-ring for RG-6 ....Δ	\$ .29
ACAC-5960 TV coax hex crimp tool .....	7.99
AH-19 6' audio cable w/RCA plugs .....	2.99
AH-211 25' audio cable w/RCA plugs .....	3.99
ANT-1020 VHF TV/UHF TV/FM indoor ant ... Δ	9.99
VH-84 6' audio/video cbl w/gold RCA plugs Δ .....	2.99

## RF PARTS (See Diamond)

## RADIOWAVZ (RAD)

160MC/BALUN 250' 160m dipole w/1:1 balun .....	\$ 79.99
80MC/BALUN 130' 80m dipole w/1:1 balun ..	59.99
40MC/BALUN 66' 40m dipole w/1:1 balun ....	47.99
30MC/BALUN 46' 30m dipole w/1:1 balun ....	47.99
20MC/BALUN 32' 20m dipole w/1:1 balun ....	39.99
17MC/BALUN 26' 17m dipole w/1:1 balun ....	37.99
15MC/BALUN 22' 15m dipole w/1:1 balun ....	37.99
12MC/BALUN 19' 12m dipole w/1:1 balun ....	37.99
10MC/BALUN 17' 10m dipole w/1:1 balun ....	37.99
160M-DBZ* 265' 160m double bazooka ant ..	129.99
75M-DBZ* 127' 75m double bazooka ant ....	79.99
40M-DBZ* 70' 40m double bazooka ant .....	59.99

\*Buy 2, get 1 free thru 10/31/07! See our web page

DX-160 246' 160m windom antenna .....	132.99
DX-80 136' 80m windom antenna .....	79.99
DX-40 67' 40m windom antenna .....	59.99

B-11A 1:1 160-6m voltage balun .....	21.99
B-11ISO 1:1 160-6m isolation balun .....	29.99
B-14VA 4:1 160-10m voltage balun .....	25.99
B-19TX 9:1 160-10m isolation balun .....	29.99
DPH Dipole head w/eye hook .....	9.99

G5RV 102' G5RV antenna, 32' tall .....	39.99
G5RV JR 51' G5RV antenna, 14' tall .....	28.99
G5RV LITE 68' G5RV antenna, 32' tall .....	48.99
G5RV MAX 204' G5RV antenna, 56' tall .....	75.99

J8X-U1 1.5' RG-8X coax/silver teflon PL259s ..	9.99
J8X-U3 3' RG-8X coax/silver teflon PL259s ...	11.99
J8X-U6 6' RG-8X coax/silver teflon PL259s ...	14.99
J8X-U12 12' RG-8X coax/silver teflon PL259s ..	22.99
J8X-U25 25' RG-8X coax/silver teflon PL259s ..	29.99
J8X-U50 50' RG-8X coax/silver teflon PL259s ..	37.99
J8X-U75 75' RG-8X coax/silver teflon PL259s ..	49.99
J8X-U1X 100' RG-8X coax/silver teflon PL259s ..	63.99

J213-U1 1.5' RG-213 coax/silver teflon PL259s ..	14.99
J213-U3 3' RG-213 coax/silver teflon PL259s ..	16.99
J213-U6 6' RG-213 coax/silver teflon PL259s ..	17.99
J213-U12 12' RG-213 coax/silver teflon PL259s ..	24.99
J213-U25 25' RG-213 coax/silver teflon PL259s ..	34.99
J213-U50 50' RG-213 coax/silver teflon PL259s ..	55.99
J213-U75 75' RG-213 coax/silver teflon PL259s ..	73.99
J213-U1X 100' RG-213 coax/silver teflon PL259s ..	94.99
J213-U12X 125' RG-213 coax/silver teflon PL259s ..	114.99



## Radiowavz - continued AES Price

J213-U15X	150' RG-213 coax/silver teflon PL259s	136.99
TL308-100	100 ft 18ga 300 ohm twinlead	24.99
TL458-100	100 ft 18ga 450 ohm ladderline	24.99
TL454-100	100 ft 14ga 450 ohm ladderline	54.99

## SGC (SGC)

52-96	SG-500 1.8-24MHz 12v 500w PEP amp	1299.99
51-82	Fan kit; continuous duty xmit SG500	220.99
54-14	SG-230 200w 1.8-30 MHz 12v Smartuner	499.99
54-15	SG-235 500w 1.8-30MHz 12v Smartuner	1079.99
54-18	SG-237 100w PEP HF+6m mini Smartuner	299.99
54-22	SG-239 200w Smartuner	195.99
54-63	SmartLock; SG230/237/239 after 9/1/93	60.99
54-25	MAC-200 Smartuner/ant switch combo	265.99
55-28	SG-307 1.8-60 7' mobile whip & mt	390.99
70-14	ADSP2 DSP noise reduction speaker	160.99

## SAMLEX (SAM)

FCP-1000	1A ps w/cigarette lighter socket	\$ 7.99
SEC-1223	23A switching power supply w/fan	99.99
SEC-1235	30A switching ps w/fan, 35A surge	129.99
SEC-1235M	30A switch ps/fan/meters, 35A surge	139.99
SI-175HP	175w 12vdc-115vac inverter	29.99
SI-400HP	400w 12vdc-115vac inverter	49.99
SPS-1204UL	3.5A switching ps+cig socket	29.99

## SANGAN (SAN)

ATS-404	AM/FM/SW portable receiver w/case	\$ 79.99
ATS-505P	AM/FM/SW portable receiver	129.99
ATS-606AP	AM/FM/shortwave portable receiver	139.99
ATS-909	AM/FM/shortwave portable Rcvr	249.99
DT-200V	AM/FM/VHF TV sound dig port Rcvr	59.99
PR-D2	AM/FM portable dark grain "Q" radio	69.99
PT-50	AM/FM/SW portable receiver	29.99
PT-80	Deluxe AM/FM/SW portable receiver	159.99
RCR-2	AM/FM atomic clock radio	69.99
WR-1	AM/FM wooden cabinet receiver	99.99
ANT-60	Portable wind-up SWL antenna	13.99

## SCANCAT (SCA)

Lite-Plus	Scanner programming software	Δ \$ 14.99
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## SEQUOIA (SEQ)

POCKET PC REF	Pocket PC reference book	\$ 15.99
POCKET REF	Pocket reference book	12.99
WinRef 98-95	Windows pocket reference book	Δ 2.99

## SHAKESPEARE (SHA)

396-1	3db 5' VHF marine ant, less mount	\$ 89.99
5101	6db 8' VHF marine ant, less mount	69.99
5202	6db 8' VHF mar ant/chrome ferrule, less mt	109.99
5206-C	Econo 8' VHF mar ant/chrome ferrule, no mt	59.99
495	White plastic lift & lay mount	Δ .99
4187	Stainless steel ratchet mount	39.99
5215	3db 36" sailboat VHF marine ant w/mt	49.99
420	3db 5' VHF marine ant w/fold-down mt	84.99
PL-259-CP-G	Solderless PL-259; RG-8X/58	7.99
PL-258-CP-G	Solderless splice; RG-8X/58	11.99

## Smiley Antenna (SMI)

270A	2m/220/440 gain telescopic whip	\$ 19.99
270A/SMA	2m/220/440 gain tele whip w/SMA	19.99
5/8 SLD-2	2m 3/4 Slim Duck rubber ant	19.99
5/8 SLD-2/SMA	2m 3/4 Slim Duck rubber ant/SMA	19.99
5/8 SLD-220	220 3/4 Slim Duck rubber ant	19.99
5/8 SLD-440	440 3/4 Slim Duck rubber ant	19.99
5/8 SLD-2 Combo	2m 3/4 duck & stubby ant	29.99
5/8 SLD-220 Combo	220 3/4 duck & stubby ant	29.99
5/8 SLD-440 Combo	440 3/4 duck & stubby ant	29.99
FLX 1/2 WAV-2M	1/2 wv 2m BNC whip/flex coil	25.99
RD-2	2m rubber duck antenna	15.99
RD-220	220 rubber duck antenna	15.99
RDMD-2	2m mini rubber duck antenna	15.99

## Smiley - continued

RDMD-440	440 mini rubber duck antenna	15.99
RDS-2	2m stubby rubber duck antenna	15.99
RDS-220	220 stubby rubber duck antenna	15.99
RDS-440	440 stubby rubber duck antenna	15.99
SD-2	2m Slim Duck thin rubber antenna	15.99
SD-220	220 Slim Duck thin rubber antenna	15.99
SL-440	440 slimline type duck	15.99
SS-II	Super Stick 2m 3/4 wv telescopic ant	19.99
SS-III	Super Stick 220 3/4 wv telescopic ant	19.99
SS-IV	Super Stick 440 3/4 wv telescopic ant	19.99
SS-II/Combo	2m 3/4 wv telescopic & stubby ant	29.99
SS-III/Combo	220 3/4 wv telescopic & stubby ant	29.99
SS-IV/Combo	440 3/4 wv telescopic & stubby ant	29.99
TAQ-2	2m 1/4 wave stainless whip	10.99
TAQ-220	220 1/4 wave stainless whip	10.99
TAQ-440	440 1/4 wave stainless whip	10.99
TS	Thin Stick 2m/220 3/4 wave telescopic whip	16.99

## SOLARCON (SOL)

A-99	10m/CB 17' 8" fiberglass base ant	\$ 79.99
GPK-1	Ground plane radial kit	59.99

## SONY SHORTWAVE (SON)

ICF-SW11	AM/FM/SW compact receiver	\$ 49.99
ICF-SW12	AM/FM/SW travel Rcvr/world clock	D 69.99
ICF-SW35	AM/FM/SW portable receiver	89.99
ICF-SW40	AM/FM/SW portable receiver	D 89.99
ICF-SW7600GR	AM/FM/SW portable receiver	159.99
DCC-E260	Mobile DC adapter; ICF-SC1	D .19

## STICKY PAD (STI)

13810	7 1/2" x 4 1/2" sticky pad for handhels, etc	\$ 5.99
13820	8 1/2" x 6 1/8" sticky pad for larger items	9.99

## Synthetic Textiles (SYN)

100' 3/32"	black double braided rope	\$ 9.99
100' 3/16"	3/16" black double braided rope	18.99
100' 5/16"	5/16" black double braided rope	26.99
350' 3/8"	black double braided rope	49.99

## Terk Technologies (TER)

Advantage	Indoor passive fine-tunable AM ant	\$ 49.99
HDTV-1	Indoor UHF/VHF HDTV antenna	39.99
LF-30S	2.4GHz wireless vid/aud sys/rem features	99.99
LF-IRX	Remote control extender	39.99
MOD-41	4-input video switch/converter	39.99
PI-B	Indoor AM/amplified FM loop antenna	49.99
Tower	Indoor AM/amplified FM tower antenna	24.99
TSP-6	8 outlet AC/TV/telephone surge protector	D 9.99
TV-42	Clip-on mini dish mt amp TV ant; 2 LNB dish	D 34.99
TV-55	Indoor/outdoor TV antenna	99.99
VR-1	TV volume regulator	39.99
VS4-MOD	4-input remote video switch/converter	D 24.99
VS4-MOD+	4-input remote video switch/converter	D 29.99

## Times Microwave (TMS)

LMR-400	Standard 3/8" coax cable	per ft. \$ .83
LMR-400		500 ft. Roll 319.99
LMR-400-DB	Watertight 3/8" coax cable per ft.	.92
LMR-400-DB		500 ft. Roll 359.99
LMR-400-UF	UltraFlex 3/8" coax cable	per ft. 1.18
LMR-400-UF		500 ft. Roll 469.99

## TIMEWAVE (TIM)

ANC-4	RF noise canceller	\$209.99
AC-1	12vdc 600 ma adapter	15.99
AC-5	12vdc 1.7A desktop ps	22.99
DSP-599zx	All-mode DSP noise filter	436.99
AC-5	12vdc 1.7A desktop ps	22.99
PK-96/100K	9600 baud controller/128K RAM	219.99
(CSS) PKTerm for Windows	Soft; PK-96/232	99.99
AC-1	12vdc 600 ma adapter	15.99
AC-5	12vdc 1.7A desktop ps	22.99

## Timewave - continued AES Price

PK-232/PSK	Multimode controller w/sound card	531.99
PK-232/USB	Multimode controller/sound card/USB	549.99
(CSS) PKTerm for Windows	Soft; PK-96/232	99.99
AC-5	12vdc 1.7A desktop ps	22.99
TZ-900N	.2-55MHz type N antenna analyzer	1299.99
TZ-900S	.2-55MHz SO239 antenna analyzer	1299.99

## TRAXXAS (TRX)

2410	Bandit RTR electric buggy w/TQ radio	Δ \$ 49.99
3606	Stampede RTR electric monster truck w/ESC	Δ 99.99
3706	Rustler RTR electric stadium truck w/ESC	Δ 99.99
3710	Rustler RTR electric stadium truck w/TQ Tx	Δ 69.99
3906	E-Maxx RTR electric monster truck	Δ 199.99

## TRINITY (TRN)

RC-2141	Monster horsepower stock pro	Δ \$ 9.99
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## TRIPP LITE (TRI)

ISOBAR-8 ULTRA	8 outlet surge suppress/LEDs	\$ 79.99
SUPER-7	7 outlet surge suppressor	19.99
SUPER-7+TEL	7 outlet/fax modem surge	29.99

## TUBES (TUB)

6146B	Tube	\$ 26.99
12BY7A	Tube	24.99
3-500ZG-RFP	High dissipation tube (3-500Z)	179.99
572B	Tube	49.99
811A	Tube	19.99

## US TOWER (UST)

### FREE STANDING CRANK-UPS (not for TTX)

TX-438	38' crank-up tower	T 1649.99
TX-455	55' crank-up tower	T 2269.99
TX-472	72' crank-up tower	T 3729.99
TX-472MDP	72' crank-up w/motor drive	T 5999.99
TX-489MDPL	89' crank-up w/motor drive	T 9729.99

### FREE STANDING HD CRANK-UP TOWERS

HDX-538	38' crank-up tower	T 1959.99
HDX-555	55' crank-up tower	T 3419.99
HDX-572MDPL	72' crank-up w/motor drive	T 8919.99
HDX-589MDPL	89' crank-up w/motor drive	T 11669.99
HDX-689MDPL	89' HD crank-up w/motor	T 22549.99
HDX-5106MDPL	106' HD crank-up w/motor	T 24529.99

### COMPACT TMM (Top mt rotor for full retraction)

TMM-433SS	33' crank-up tower	T 1759.99
TMM-433HD	33' HD crank-up tower	T 2119.99
TMM-541SS	41' crank-up tower	T 2299.99

### ACCESSORIES FOR CRANK-UP TOWERS

CX-2	Coax arms (2) for 2-section tower	\$ 80.99
CX-3	Coax arms (3) for 3-section tower	111.99
CX-4	Coax arms (4) for 4-section tower	164.99
CX-5	Coax arms (5) for 5-section tower	224.99
CX-6	Coax arms (6) for 6-section tower	284.99
HDP	Service platform	T 1619.99
IV-16	Inverted vee arm for MA's	60.99
M-5	2" OD 5' mast extension for MA's	60.99
M-10	2" OD 10' mast	T 112.99
M-15	2" OD 15' mast	T 154.99
M-15R	2" OD 15' reinforced mast	T 234.99
M-20	2" OD 20' mast	T 199.99
M-20R	2" OD 20' reinforced mast	T 299.99
CM-20	2" OD 20' cromolly mast	T CALL

MD-75	Heavy duty 1 HP motor drive	T 1319.99
MDP-750*	Pull-down drive; TX-472/HDX-555 T	2049.99
MDPL-1000*	Pull-down drive; HDX-572 T	2779.99
*Requires MCL-100 or RMC-1000. MDP-750 and MDPL-1000 not sold separately		

MRF	Mast raising fixture	389.99
MCL-100	Limit switch package	629.99
RMC-1000	Remote control w/limit switch	1319.99
TRX-80	Raising fixture; TX-438/455; HDX-538/555 T	599.99



## US Tower - continued AES Price

TRX-80HD	Raising fixture; TX-472/489; HDX-572/589 T	799.99
TRX-100HD	Raising fixture; HDX-689/5106 T	1079.99
TB-2US	Thrust bearing; 2" mast w/2 flange holes	144.99
<b>MA-SERIES TUBULAR TOWERS</b>		
MA-40	40' crank-up tubular tower .....	T 1299.99
MA-550	55' crank-up tubular tower .....	T 2019.99
MA-550MDP	55' crank-up tubular w/motor T	3859.99
MA-770*	70' crank-up tubular tower .....	T 3329.99
MA-770MDP*	70' crank up tubular w/motor T	5279.99
MA-850*	85' crank-up tubular tower .....	T 5159.99
MA-850MDP*	85' crank-up tubular w/motor T	7099.99
*Requires MAB or MARB-series base		

## MA-SERIES ACCESSORIES

CX-2M	Coax arms (2) for MA-40 .....	\$ 85.99
CX-3M	Coax arms (3) for MA-550 .....	119.99
CX-4M	Coax arms (4) for MA-770 .....	199.99
CX-5M	Coax arms (5) for MA-850 .....	234.99
MAB-40	Hinged base for MA-40 .....	T 489.99
MAB-550	Hinged base for MA-550 .....	T 579.99
MAB-770	Hinged base for MA-770 .....	T 699.99
MAB-850	Hinged base for MA-850 .....	T 849.99
MAF-40	Raising fixture for MA-40 .....	299.99
MAF-550	Raising fixture for MA-550 .....	T 409.99
MAF-770	Raising fixture for MA-770 .....	T 519.99
MAF-850	Raising fixture for MA-850 .....	T 639.99
MARB-40	Rotor base accessory for MA-40 ..	T 739.99
MARB-550	Rotor base accessory for MA-550 T	849.99
MARB-770	Rotor base accessory for MA-770 T	1029.99
MARB-850	Rotor base accessory for MA-850 T	1219.99

All US TOWER products are drop-shipped (shipped direct to you from the US TOWER factory). On these factory drop-shippments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Woodlake, California or Lincoln, Kansas via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier. You can obtain shipping charges from any AES salesperson by phone or email. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

## UNADILLA (See W2AU)

## UNIDEN (UNI)

PC-68 Elite	AM Mobile CB w/WX alert .....	\$ 99.99
PC-68LTW	AM Mobile CB w/WX alert .....	79.99
PC-68XL	AM Mobile CB .....	74.99
PC-78 Elite	AM Mobile CB w/WX alert .....	119.99
PC-78LTW	AM Mobile CB w/WX alert .....	99.99
PC-78XL	AM Mobile CB .....	94.99
PRO-510XL	AM Mobile CB .....	39.99
PRO-520XL	AM Mobile CB .....	54.99
PRO-538W	AM Mobile CB w/WX .....	59.99

## UNIDEN BEARCAT

BC-340CRS	100 ch scanner w/SAME WX .....	\$ 99.99
BC-350C	100 ch prog/service search w/AC ps	99.99
BC-370CRS	300 ch scanner/800/SAME WX ...	139.99
BC-898T	500 ch prog scanner/trunking/preprog	209.99
BCD-996T	6000 ch prog/trunk/SAME WX/dig	549.99
BC-RH96	Remote head for BCD-996T .....	199.99
BCT-8	Preprog warning scan/800/trunk/AC ps	179.99
BCT-15	2500 ch prog scanner/800/trunk .....	239.99
BC-RH96	Remote head for BCT-15 .....	199.99
BC-72XLT	100 ch pocket scanner .....	99.99
BC-92XLT	200 ch prog pocket scanner/800 D	99.99
BC-95XLT	200 ch prog pocket scanner/800 ..	119.99
AD-70	Extra charger .....	10.99
AD-100	AC adapter/batt cgr; earlier scanners	Δ 99

## Uniden - continued

BBY0356001	Extra battery for BC-296D ...Δ	14.99
BCI-25D	Digital board for BC-785D/250D ..D	129.99
BP-120	Extra battery; SC180B/SC200 .....	Δ 18.99
BP-180	Extra battery for BC-245XLT .....	Δ 16.99
BP-200	Extra battery for BC-200XLT .....	Δ 26.99
BP-205	Extra battery for BC-100XLT .....	Δ 26.99
LC-120	Carrying case; BC230XLT/245XLT ...D	4.99
NC-250D	Carrying case for BC-250D/296D Δ	6.99
UA-502	Cig power cord .....	Δ 6.99
SC-230	1600+ch pocket/800/SAME WX .....	199.99
BC-246T	1600+ ch pocket scanner/trunking	229.99
BADG0687001	DC cord .....	22.99
NC-246T	Carrying case .....	19.99
BCD-396T	3000+ch pocket/trunk/SAME/dig .	549.99
BADG0687001	DC cord .....	22.99
BC-RH96	Remote head .....	199.99

## MARINE

Atlantis-250	5w VHF marine handheld .....	\$ 99.99
MHS-350	Waterproof 5w VHF marine handheld	149.99
Voyager	5w VHF marine handheld/lith ion batt	169.99
Oceanus-DSC	25w 90 ch VHF marine Xcvr/DSC	139.99
Polaris	25w VHF marine Xcvr w/hailer .....	D 99.99
Solara-DSC	25w 90 ch VHF marine Xcvr/DSC	99.99
UM-525	25w VHF marine Xcvr w/hailer .....	199.99
UM-625C	25w VHF marine Xcvr/color TFT/hailer	299.99

## Unified Microsystems (UNM)

VK-64	CW/voice keyer .....	\$229.99
KC-4	CW cable for VK-64 to transceiver ...	9.99
VKC-8	8-pin audio cable for VK-64 to Xcvr	24.99
XT-4	Small size CW memory keyer .....	69.99
KC-4	CW cable for XT-4 to transceiver .....	9.99
W9XT	Contest card for IBM PC & compatible Δ	109.99
CCC-8	8pin mic contest card cable semi-kit Δ	34.99

## Universal Towers (UNT)

4-30	4 sq ft wind load 30' alum tower .....	T \$373.99
9-30	9 sq ft wind load 30' alum tower .....	T 501.99
12-30	12 sq ft wind load 30' alum tower .....	T 660.99
21-30	21 sq ft wind load 30' alum tower .....	T 785.99
23-30	23 sq ft wind load 30' alum tower .....	T 1038.99
35-30	35 sq ft wind load 30' alum tower .....	T 1170.99
4-40	4 sq ft wind load 40' alum tower .....	T 626.99
7-40	7 sq ft wind load 40' alum tower .....	T 786.99
9-40	9 sq ft wind load 40' alum tower .....	T 876.99
12-40	12 sq ft wind load 40' alum tower .....	T 1038.99
15-40	15 sq ft wind load 40' alum tower .....	T 1161.99
21-40	21 sq ft wind load 40' alum tower .....	T 1263.99
23-40	23 sq ft wind load 40' alum tower .....	T 1518.99
4-50	4 sq ft wind load 50' alum tower .....	T 882.99
5-50	5 sq ft wind load 50' alum tower .....	T 1003.99
7-50	7 sq ft wind load 50' alum tower .....	T 1128.99
9-50	9 sq ft wind load 50' alum tower .....	T 1255.99
15-50	15 sq ft wind load 50' alum tower .....	T 1640.99
16-50	16 sq ft wind load 50' alum tower .....	T 1747.99
4-60	4 sq ft wind load 60' alum tower .....	T 1256.99
6-60	6 sq ft wind load 60' alum tower .....	T 1540.99
7-60	7 sq ft wind load 60' alum tower .....	T 1613.99
9-60	9 sq ft wind load 60' alum tower .....	T 1732.99
3-70	3 sq ft wind load 70' alum tower .....	T 1638.99
4-70	4 sq ft wind load 70' alum tower .....	T 1960.99
6-70	6 sq ft wind load 70' alum tower .....	T 2023.99
7-70	7 sq ft wind load 70' alum tower .....	T 2088.99
3-80	3 sq ft wind load 80' alum tower .....	T 2182.99
4-80	4 sq ft wind load 80' alum tower .....	T 2504.99
2-90	2 sq ft wind load 90' alum tower .....	T 2596.99
B-14	Base for tower .....	81.99
B-18	Base for tower .....	81.99
B-22	Base for tower .....	124.99
B-26	Base for tower .....	156.99

## Universal - continued AES Price

Extra 14"	stubs (between base & tower) .set	16.99
Extra 18"	stubs (between base & tower) .set	28.99
Extra 22"	stubs (between base & tower) .set	46.99
Extra 26"	stubs (between base & tower) .set	46.99
RFM-11	Flat roof mt for guyed tower .....	53.99
RFM-14	Flat roof mt for guyed tower .....	53.99
RFM-18	Flat roof mt for guyed tower .....	84.99
RFM-22	Flat roof mt for guyed tower .....	113.99
RFM-26	Flat roof mt for guyed tower .....	151.99
R-11	Rotor mount .....	37.99
R-14	Rotor mount .....	57.99
R-18	Rotor mount .....	75.99

## SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR

11 Top	11" top tower section .....	T 126.99
14 Top	14" top tower section .....	T 159.99
18 Top	18" top tower section .....	T 288.99
14 Taper	14" taper tower section .....	T 140.99
18 Taper	18" taper tower section .....	T 252.99
22 Taper	22" taper tower section .....	T 375.99
26 Taper	26" taper tower section .....	T 536.99
11 Straight	11" straight tower section .....	T 124.99
14 Straight	14" straight tower section .....	T 140.99
18 Straight	18" straight tower section .....	T 252.99
22 Straight	22" straight tower section .....	T 375.99
26 Straight	26" straight tower section .....	T 536.99
HD35-40	35 sq ft wind load 40' alum tower T	1746.99
HD21-50	21 sq ft wind load 50' alum tower T	1866.99
HD9-60	9 sq ft wind load 60' alum tower ...T	1961.99
HD16-60	16 sq ft wind load 60' alum tower T	2345.99
HD21-60	21 sq ft wind load 60' alum tower T	2473.99
HD8-70	8 sq ft wind load 70' alum tower ...T	2213.99
HD12-70	12 sq ft wind load 70' alum tower T	2723.99
HD17-70	17 sq ft wind load 70' alum tower T	2952.99
HD21-70	21 sq ft wind load 70' alum tower T	3078.99
HD8-80	8 sq ft wind load 80' alum tower ...T	2820.99
HD9-80	9 sq ft wind load 80' alum tower ...T	2942.99
HD11-80	11 sq ft wind load 80' alum tower T	3327.99
HD12-80	12 sq ft wind load 80' alum tower T	3330.99
HD16-80	16 sq ft wind load 80' alum tower T	3555.99
HD4-90	4 sq ft wind load 90' alum tower ...T	2940.99
HD8-90	8 sq ft wind load 90' alum tower ...T	3454.99
HD11-90	11 sq ft wind load 90' alum tower T	3935.99
HD4-100	4 sq ft wind load 100' alum tower T	3903.99
HD8-100	8 sq ft wind load 100' alum tower T	4186.99
B-30	Base for HD tower .....	231.99
Extra 30"	stubs (between base & tower) .set	67.99
RFM-30	Flat roof mt for guyed tower .....	211.99
30 Taper	30" taper tower section .....	T 604.99
30 Straight	30" straight tower section .....	T 604.99

## SEE LITERATURE FOR TOWER CONFIGURATIONS SPECIFY 1-5/8, 1.3 or 2-1/16" TOWER COLLAR

1-5/8SC	Flange bearing .....	102.99
2-3/16SC	Flange bearing .....	114.99
Top Plate	Flange plate welded to top section	27.99
1-1/4" OD x 5 ft	aluminum mast .....	T 24.99
1-1/4" OD x 10 ft	aluminum mast .....	T 38.99
1-1/2" OD x 10 ft	aluminum mast .....	T 47.99
2" OD x 8 ft	aluminum mast .....	57.99
2" OD x 16 ft	aluminum mast .....	T 105.99

All UNIVERSAL TOWERS products are drop-shipped (shipped direct to you from the UNIVERSAL TOWERS factory). On these factory drop-shippments we prefer payment in full with order, however, we will accept your credit card with the understanding that we will process the charge when we order the merchandise from the factory. This means that you may be billed before you receive your drop-shipped merchandise. Shipment is FOB Mt. Clemens, Michigan via truck, COD for freight



**Universal - continued** AES Price  
charges only. Freight charges will be collected upon delivery by the carrier. You can obtain shipping charges from any AES salesperson by phone or email. Please allow sufficient time for delivery on these special order products. Most truck lines will not unload the tower for you, so please be sure to have enough manpower and/or equipment on hand when your tower is delivered by the carrier.

## VALOR (See PRO AM) VANCO (VCO)

370052	3½ digit multimeter	Δ	\$ 19.99
CL-3	Extra heavy duty alligator clip leads (10)		9.99
HF-24RS	Scanner headphones w/dual volume		19.99
SWR-1	SWR/field strength meter		29.99
SWR-3	Mini SWR meter		19.99

## VAN GORDEN (VAN)

All Bander	Dipole 160-10m (use tuner) 135' ant	Δ	\$ 35.99
Antenna center	insulator	Δ	9.99
Antenna end	insulator	Δ, pair	6.99
Dog bone	type antenna insulator	Δ, each	.99
D-15	15m 22' wire dipole antenna	Δ	35.99
G5RV	Flat-top 3.5-30 102' ant/kmfr/100' cable	Δ	60.99
G5RV-E	Flat-top 3.5-30 102' ant/31' twinlead	Δ	35.99
G5RV JR	Flat-top 7-30 52' ant/17' twinlead	Δ	30.99
G5RV-M	Flat-top 1.8-30 204' ant/65' twinlead	Δ	60.99
Hi-Q	1:1 balun	Δ	18.99
PD-4010	40/20/15/10m 66' parallel dipole	Δ	49.99
PD-4020	40/20/15m 66' parallel dipole	Δ	43.99
PD-8040	80/40/15m 130' parallel dipole	Δ	51.99
RG-213	Non-contaminating	Δ, per ft.	.59
SD-40	Short 45' 40m wire dipole antenna	Δ	44.99
SD-80	Short 90' 80m wire dipole antenna	Δ	46.99
Shorty All Bander	160-10m (use tuner) 70' ant	Δ	55.99
213-100ST	100' RG-213 coax/silver teflon PL259s	Δ	69.99
213-50ST	50' RG-213 coax/silver teflon PL259s	Δ	39.99
450 ohm	18ga solid ladderline	Δ, 100 ft.	24.99
450 ohm	18ga solid ladderline	Δ, 1000 ft.	199.99
450 ohm	14ga stranded ladderline	Δ, 100 ft.	54.99
450 ohm	14ga stranded ladderline	Δ, 1000 ft.	449.99
8X-75ST	75' RG-8X coax/silver teflon PL259s	Δ	39.99

## VECTRONICS (VEC)

DL-300M	300w 150MHz dummy load	\$	49.99
DL-650M	1.5kw 650MHz dummy load		79.99
DL-2500	2.5kw 150MHz dummy load		189.99
HFT-1500	1.5kw antenna tuner		429.99
HPF-1	High pass filter, 75 or 300 ohms		24.99
HPF-2	Deluxe high pass filter, 75 or 300 ohms		29.99
LP-30	1.5kw low pass filter		79.99
LP-2500	2.5kw low pass filter		119.99
PM-30HF	300/3kw HF/6m wattmeter		79.99
PM-30UV	30/300w 2m/220/440 wattmeter		89.99
VC-300DLP	300w antenna tuner		159.99
VC-300M	300w mobile antenna tuner		119.99
121K	Crystal radio set kit		19.99
131K	Aircraft receiver kit		29.99
201K	CW keyer kit		24.99
422K	FM broadcast SCA decoder kit		27.99
830K	Super SSB audio filter kit		19.99
841K	Tunable SSB/CW audio filter kit		34.99
1140K	40m receiver kit		29.99
1240K	40m QRP CW transmitter kit		29.99
1290K	AM radio transmitter kit		29.99

## VELLEMAN (VEL)

AVM-2050	Analog sound level meter	\$	29.99
AVM-089	3 channel audio/video switcher		8.99
DVM-810	3½ digit digital multimeter		9.99
DVM-850BL	Deluxe 3½ digit DMM w/holder		19.99
EL-301	30 in 1 electronic lab kit		39.99
EL-1301	130 in 1 electronic lab kit		89.99
EL-3001	300 in 1 electronic lab kit		129.99

## Velleman - continued

K/TF	75-piece cable ties		2.99
TLM-2	Test lead set w/banana plugs		2.99
TLM-10	Test probe set		4.99
VT-BT6	33-piece screwdriver bit set		6.99
VT-COAX	Coax stripper; RG-58/59/62/6		14.99
VT-D2	Heavy duty desoldering pump		3.99
VT-LAMP2U	Hobby magnifier lamp w/table mt		49.99
VT-M468L	Crimp tool for RJ-11/12/45		9.99
VT-SET	5-piece pliers		9.99
VT-SET3N	6-pc electronics screwdriver set		9.99
VT-SET21N	8-in-1 screwdriver set		4.99
VT-TS	25-piece hobbyist tool set		9.99

## VIBROPLEX (VIB)

090	Original Gold Bug		\$299.99
100	Original Presentation Super deluxe bug		269.99
105	Original Deluxe Bug		209.99
110	Original Standard Bug		179.99
113	VibroKeyer Gold Paddle		279.99
115	VibroKeyer Deluxe Paddle		199.99
120	VibroKeyer Standard Paddle		159.99
123	Iambic Gold Paddle		279.99
125	Iambic Presentation Paddle		269.99
130	Iambic Deluxe Paddle		199.99
135	Iambic Standard Paddle		159.99
145	Triangular Brass Racer Iambic paddle		149.99
150	Square Brass Racer Iambic paddle		149.99
153	Gold straight key		279.99
155	Standard straight key		159.99
160	Deluxe straight key		199.99
162	Gold Hand key/Iambic Paddle double	Δ	339.99
163	Gold Hand key/VibroKeyer Paddle double	Δ	339.99
165	Deluxe Hand key/Iambic Paddle double		349.99
170	Dlx Hand key/VibroKeyer Paddle double		349.99
175	Standard Hand key/Iambic Paddle double		269.99
180	Std Hand key/VibroKeyer Paddle double	Δ	269.99
185	Square Racer Deluxe Iambic paddle		149.99
190	Square Racer Standard Iambic paddle		129.99
195	Blue Racer 2000 Std Millennium Bug		199.99
198	Blue Racer 2000 Dlx Millennium Bug	Δ	199.99
200	Code Warrior Junior Paddle		109.99
CP-3	Cord & plug for Iambic & Vibrokeyer		9.99

## WA1FFL (WA1)

Ladder-Loc	450 ohm ladderline center attach	\$	12.99
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## W2AU (Unadilla) (W2A)

W2AU 1:1	160-10m balun, lightning arrestor	\$	24.99
W2AU 4:1	160-10m balun, lightning arrestor		24.99
W2AU Beam Balun, 1:1			24.99
W2DU-HF	1:1 1.8-30 MHz choke balun		26.99
W2DU-VHF	1:1 30-250 MHz choke balun		26.99
W2DU Beam Balun	40-10m 1:1 choke balun		26.99
HA	AN-sulator center insulator		9.99
HE	END-sulator end insulators	pair	6.99
KW-80CW	Reyco 80m CW ant traps	pair	48.99
KW-80F	Reyco 75m phone ant traps	pair	48.99
KW-60	Reyco 60m antenna traps	pair	46.99
KW-40	Reyco 40m antenna traps	pair	42.99
KW-30	Reyco 30m antenna traps	pair	42.99
KW-20	Reyco 20m antenna traps	pair	41.99
KW-17	Reyco 17m antenna traps	pair	41.99
KW-15	Reyco 15m antenna traps	pair	41.99
KW-12	Reyco 12m antenna traps	pair	41.99
KW-10	Reyco 10m antenna traps	pair	41.99
W2AU/W2VS	5-band ant kit (use tuner)		85.99

## W4RT (W4R)

Antenna Boss	interface; mot ant/FT100/847/57/97	\$	169.99
Antenna Boss II	interface; motor ant/IC706/7000/etc		169.99
KB-2	Cable for Ant Boss II w/LDG K-OTT		7.99
YB-OTT	FT-100/817/857/897 interface	Δ	49.99

## W4RT - continued

YB-2	Cable; Ant Boss II w/W4R YB-OTT	Δ	7.99
0BF-703/718-DIY	CW & SSB Collins filter; IC703/718	Δ	199.99
0BF-817/ND-DIY	CW & SSB Collins filter; FT-817		239.99
0BP-STD	Speech compress; 817/47/57/97 handmic		49.99
0BP-UNIV	Speech compress; IC706/FT100 handmic		49.99
OPF-Y-CW-300	300Hz Collins CW filter; FT817/57/97		114.99
OPF-CW	500Hz Collins CW filter; FT817/57/97		109.99
OPF-SSB	2.3KHz Collins SSB filter; FT817/57/97		129.99

## W5YI (W5Y)

BCOM	Basic Communications Electronics book	\$	19.99
BDIG	Basic Digital Electronics book		19.99
BELC	Basic Electronics book		19.99
ECS-02	Extra upgrade software w/manual		44.99
GROL	Commercial license elements 1/3/8 manual		39.99
GRSP	Commercial study software w/GROL book		69.99
GSTD	Getting Started in Electronics book		19.99
GUS-07	General upgrade software w/manual		44.99
GW05/CD	Gordon West 8 ea 0-5 wpm code CD's		39.99
GWCT	Gordon West refresher code course CD's		14.99
GWEM-02	Gordon West Extra study manual		21.99
GWEW-02/CD	Gordon West 7 ea Extra theory CD's		39.99
GWGM-07	Gordon West General study manual		20.99
GWGW-07	Gordon West 4 ea General theory CD's		29.99
GWTM-06	Gordon West Tech study manual		18.95
GWTV-06	Gordon West 4 ea Tech theory CD's		27.99
HOS-07	Ham operator software/code (all classes)		39.99
HOSB-07	Ham op soft/code/3 books (all classes)		89.99
Mini-1	Timer, op amp & optoelectronics		12.99
Mini-2	Science & communications		12.99
Mini-3	Electronic sensors		12.99
Mini-4	Electronic formulas, symbols & circuits		12.99
NCS-06	Technician software w/manual		39.99
TPG-07	Tech/General software/manuals/code		69.99
WMC	0-48 wpm code software		19.99

## WAHL (WAH)

7740	Quick charge cordless soldering iron kit	\$	52.99
7971	30 minute butane soldering iron		25.99
7974	120 minute butane soldering iron		39.99

## Watson Guptill (WAT)

059979	2007 World Radio TV Handbook	Δ	\$ 19.99
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## WELLER (WEL)

7200PK	75w soldering gun kit	\$	30.99
7235	Extra standard tips (2) for 7200PK		3.99
CHT-100	ColdHeat Pro soldering tool		32.99
SP-23LK	25w soldering iron kit		19.99
WP-25	25w professional soldering iron		37.99
ST-4	⅜" screwdriver tip for WP-25		4.99
ST-5	½" single flat tip for WP-25		4.99
W-60P	60w temp controlled soldering iron		70.99
CT-5E7	⅜" screwdriver tip for W-60P	Δ	4.99
WESD51	50w adjustable soldering station		154.99
WSTA3	Pyropen portable LP soldering iron		109.99
WST2	Pyropen Jr. portable butane iron	Δ	64.99
WTCPT	60w temp controlled soldering stn		129.99

## West Mtn Radio (WES)

CBA-2	Computerized battery analyzer w/software	\$	109.99
CBA/TEMP	Temperature probe for CBA-2		11.99
CLR/DSP	ClearSpeech DSP noise reduction processor		219.99
CLR/SPKR	ClearSpeech DSP noise reduction spkr		219.99
CS-1	COMspkr speaker system for ham station PC		69.99
PG-40	PWRgate simple backup power system		69.99
PG-40S	PWRgate backup power sys w/charger		129.99
RB/PR/CUSB	Rigblaster Pro; 8-pin/RJ-45		279.99
RB/PL/CUSB	Rigblaster Plus; 8-pin/RJ-45		149.99
RB/NO/CU	Rigblaster nomic universal; 8-pin/RJ-45	Δ	49.99
RB/NO/CUSB	Rigblaster nomic universal; 8pin/RJ45		59.99
FT100/CBL	3' cable; Yaesu RJ-45/6-wire		16.99
RB/PP*	Rigblaster plug & play USB data/aux jack		109.99



## West Mtn - continued

## AES Price

*Call before ordering for proper configuration with radio		
CATMINI/CBL	Yaesu rig control cbl for RB/PP	12.99
CIV/CBL	Icom/TenTec rig control cbl; RB/PP	8.99
RPA/18D	Icom 8-pin DIN accel jack adapter	9.99
RPA/113D	Icom 13-pin DIN aux jack adapter	9.99
RPA/K13D	Kenwood 13-pin DIN aux jack adapt	9.99
RR/4005/C	Rigrunner 40A 5outlet/cbl/connectors	79.99
RR/4008/D	Rigrunner 40A 8outlet/cbl/connectors	109.99
RR/4010S/C	Rigrunner FET 9outlet/cbl/connectors	139.99
RR/4012/C	Rigrunner 40A 12outlet/cbl/connectors	129.99
RR/8012/C	Rigrunner 80A 12outlet/cbl/connectors	149.99
RG30/PK/12	12-pair 30A PowerPole connectors	11.99
C45/PK/12	12-pair 45A PowerPole connectors	17.99
PWR/T00L	PWRcrimp PowerPole crimp tool	49.99
RT-1	Rigtalk USB rig control interface	49.99
CATMINI/CBL	Yaesu cable for RT-1	12.99
CIV/CBL	Icom/Ten-Tec cable for RT-1	8.99
WHAT/MTR	Whattmeter watt/volt/amp/amp hr	69.99

## Wiley Publishing (WIE)

GPS Dummies	Gps for Dummies book	\$ 21.99
HR for Dummies	Ham Radio for Dummies book	21.99
WX for Dummies	Weather for Dummies book	21.99

## WILSON (WIL)

FGT-4/BLK	4' black fiberglass CB whip	\$ 29.99
FGT-4/WHI	4' white fiberglass CB whip	29.99
Little Wil	Magnetic mt CB antenna	39.99
Trucker 2000	Black mobile 1/2-24 CB whip	62.99
W-1000 Magnetic	Black mobile CB antenna	76.99
W-1000 Roof Top	Black mobile CB antenna	59.99
W-1000 Trunk Lip	Black mobile CB antenna	66.99

## WINEGARD (WIN)

CX-0625	25' RG-6 TV coax w/F connectors	\$ 10.99
CX-0650	50' RG-6 TV coax w/F connectors	15.99
CX-0675	75' RG-6 TV coax w/F connectors	19.99
CX-1000	100' RG-6 TV coax w/F connectors	24.99
PR-7010	22 el 66.5" boom Prostar TV ant .D	59.99
PR-7032	33 el 103.25" boom Prostar TV ant	89.99
PR-7042	43 el 149.75" boom Prostar TV ant	149.99
TV-2900	Outdoor TV matching transformer	2.99

## YAESU (YAE)

FTDX-9000 Contest	200w HF/6m Xcvr	5699.99
FTDX-9000D	Deluxe 200w HF/6m Xcvr	11499.99
FTDX-9000MP	High Power 400w HF/6m Xcvr	12049.99
MD-100A8X	Desk mic w/tone control	139.99
MD-200A8X	Deluxe high fidelity desk mic	399.99
MH-31B8	Extra hand microphone	49.99
SP-9000	Ext dual spkr sys/audio flts; D/Contest	369.99
YH-77STA	Open-air type stereo headphones	59.99
FT-2000	100w HF/6m AC/DC DSP Xcvr	*2469.99

\*Price after instant coupon; coupon expires 10/31/07  
**FT-2000D** 200w HF/6m DSP Xcvr ..... \*3099.99

*Price after instant coupon; coupon expires 10/31/07		
CT-119	FT-2000 firmware upgrade cable	28.99
DMU-2000	Data management unit	*899.99
*Price after instant coupon; coupon expires 10/31/07		
FH-2	Remote keyboard	99.99
MD-100A8X	Desk mic w/tone control	139.99
MD-200A8X	Deluxe high fidelity desk mic	399.99
MH-31B8	Extra hand microphone	49.99
MTU-160	u-tuning kit A for 160m	*449.99

*Price after instant coupon; coupon expires 10/31/07		
MTU-80/40	u-tuning kit B for 80/40m	*449.99
*Price after instant coupon; coupon expires 10/31/07		
MTU-30/20	u-tuning kit C for 30/20m	*449.99
*Price after instant coupon; coupon expires 10/31/07		
SP-2000	External speaker w/audio filters	199.99
T-9101556	Rotor control to FT-2000 cable	25.99
YF-122C	500Hz Collins CW filter	169.99
YF-122CN	300Hz Collins CW filter	169.99

## Yaesu - continued

YH-77STA	Open-air type stereo headphones	59.99
FT-950	HF/6m Xcvr/IF-DSP/tuner	1499.99
CT-118	Control cable; FT-950 to Quadra	40.99
CT-119	FT-950 firmware upgrade cable	28.99
DMU-2000	Data management unit	*899.99
*Price after instant coupon; coupon expires 10/31/07		
DVS-6	Voice memory unit	70.99
FC-40	Automatic wire antenna tuner	199.99
FH-2	Remote keyboard	99.99
FP-1023	23A switching ps w/fan, 25A surge	169.99
FP-1030A	25A ps, 30A surge w/meters	269.99
MD-100A8X	Desk mic w/tone control	139.99
MD-200A8X	Deluxe high fidelity desk mic	399.99
MTU-160	u-tuning kit A for 160m	*449.99
*Price after instant coupon; coupon expires 10/31/07		
MTU-80/40	u-tuning kit B for 80/40m	*449.99
*Price after instant coupon; coupon expires 10/31/07		
MTU-30/20	u-tuning kit C for 30/20m	*449.99
*Price after instant coupon; coupon expires 10/31/07		
SP-2000	External speaker w/audio filters	199.99
T-9101556	Rotor control to FT-950 cable	25.99
T-9207451	10p DIN cbl; FT-950/other amps	36.99
YH-77STA	Open-air type stereo headphones	59.99
FT-450	Compact HF/6m Xcvr/IF-DSP	*819.99
*Price after instant coupon; coupon expires 10/31/07		
ATU-450	Internal coax auto antenna tuner	*119.99
*Price after instant coupon; coupon expires 10/31/07		
FT-450AT	Compact HF/6m Xcvr/IF-DSP/tuner	*969.99
*Price after instant coupon; coupon expires 10/31/07		
CT-118	Control cable; FT-450 to Quadra	40.99
FP-1023	23A switching ps w/fan, 25A surge	169.99
FP-1030A	25A ps, 30A surge w/meters	269.99
ATAS-120	HF/6/2/430 motorized mob ant	299.99
ATBK-100	Antenna base kit; use w/base mt	99.99
FC-40	Automatic wire antenna tuner	199.99
MD-100A8X	Desk mic w/tone control	139.99
MD-200A8X	Deluxe high fidelity desk mic	399.99
MHG-1	Carrying handle	15.99
MMB-90	Mobile mounting bracket	45.99
T-9207451	10p DIN cbl; FT-450/other amps	36.99
YH-77STA	Open-air type stereo headphones	59.99
FT-897D	HF/6m/2m/430 port/base Xcvr/TCXO	*819.99
*Price after instant coupon; coupon expires 10/31/07		
(BET) Yae Tune Control	for FT-897 series	44.99
(W4R) Antenna Boss	interface; other mfrgr mot ant	169.99
(W4R) OPF-Y-CW-300	300Hz Collins CW filter	114.99
(W4R) OPF-CW	500Hz Collins CW filter	109.99
(W4R) OPF-SSB	2.3KHz Collins SSB filter	129.99
FP-30	Internal power supply	229.99
ADMS-4B	Windows prog software w/cable	59.99
ATAS-120	HF/6/2/430 motorized mob ant	299.99
ATBK-100	Antenna base kit; use w/base mt	99.99
ATAS-25	40/20/15/10/6/2/430 7.2' port ant	249.99
CT-39A	Packet cable	11.99
CT-62	CAT interface cable	36.99
EDC-20	Extra DC cable	18.99
FC-30	Antenna tuner; bolts to FT-897	199.99
FC-40	Automatic wire antenna tuner	199.99
FNB-78	4.5ah NiMH batt (will accept 2)	129.99
CD-24	4-hr charge adapter for FNB-78	129.99
PA-26B	110vac charger for CD-24	89.99
MD-100A8X	Desk mic w/tone control	139.99
MD-200A8X	Deluxe high fidelity desk mic	399.99
MH-36E8J	TTP mic	69.99
MH-59A8J	Remote control TTP mic	79.99
MLS-100	Mobile speaker	49.99
MMB-80	Mobile mounting bracket	39.99
T-9023225	Extra DC cable	26.99
YA-007FG	FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C	500Hz Collins CW filter	169.99
YF-122CN	300Hz Collins CW filter	169.99

## AES Price

## Yaesu - continued

YF-122S	2.3KHz Collins SSB filter	169.99
YH-77STA	Open-air type stereo headphones	59.99
FT-857D	Mini HF/6m/2m/430 Xcvr/DSP	*699.99
*Price after instant coupon; coupon expires 10/31/07		
FREE YSK-857 with FT-857D thru 10/31/07!		
(BET) Yae Tune Control	for FT-857 series	44.99
(W4R) Antenna Boss	interface; other mfrgr mot ant	169.99
(W4R) OPF-Y-CW-300	300Hz Collins CW filter	114.99
(W4R) OPF-CW	500Hz Collins CW filter	109.99
(W4R) OPF-SSB	2.3KHz Collins SSB filter	129.99
FP-1023	23A switching ps w/fan, 25A surge	169.99
FP-1030A	25A ps, 30A surge w/meters	269.99
ADMS-4B	Windows prog software w/cable	59.99
ATAS-120	HF/6/2/430 motorized mob ant	299.99
ATBK-100	Antenna base kit; use w/base mt	99.99
ATAS-25	40/20/15/10/6/2/430 7.2' port ant	249.99
CT-39A	Packet cable	11.99
CT-58	Band data cable; Yaesu amplifier	34.99
CT-62	CAT interface cable	36.99
EDC-20	Extra DC cable	18.99
FC-30	Antenna tuner	199.99
FC-40	Automatic wire antenna tuner	199.99
MD-100A8X	Desk mic w/tone control	139.99
MD-200A8X	Deluxe high fidelity desk mic	399.99
MH-36E8J	TTP mic	69.99
MH-59A8J	Remote control TTP mic	79.99
MLS-100	Mobile speaker	49.99
T-9023225	Extra DC cable	26.99
TCXO-9	TCXO unit, 0.5 ppm	109.99
YA-007FG	FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C	500Hz Collins CW filter	169.99
YF-122CN	300Hz Collins CW filter	169.99
YF-122S	2.3KHz Collins SSB filter	169.99
YH-77STA	Open-air type stereo headphones	59.99
YSK-857	Separation kit	69.99
FT-817ND	5w HF/6/2/430 Xcvr/FNB85/NC72B	599.99
(W4R) OBF-817/ND-DIY	CW & SSB Collins flts	239.99
(W4R) OPF-Y-CW-300	300Hz Collins CW filter	114.99
(W4R) OPF-CW	500Hz Collins CW filter	109.99
(W4R) OPF-SSB	2.3KHz Collins SSB filter	129.99
ADMS-4A	Windows prog software w/cable	59.99
ATAS-25	40/20/15/10/6/2/430 7.2' port ant	249.99
CSC-83	Soft case w/side pocket for FT-817	29.99
CT-39A	Packet cable	11.99
CT-62	CAT interface cable	36.99
EDC-6	Extra DC cord; plug & wire only	8.99
FNB-72	9.6v 1000mah nicad battery	19.99
FNB-85	9.6v 1400mah NiMH battery	69.99
MH-36E8J	TTP mic	69.99
MLS-100	Mobile speaker	49.99
NC-72B	Extra nicad wall charger	24.99
TCXO-9	TCXO unit, 0.5 ppm	109.99
YA-007FG	FG whip w/bpr mt; 80-10m use tuner	169.99
YF-122C	500Hz Collins CW filter	169.99
YF-122CN	300Hz Collins CW filter	169.99
YF-122S	2.3KHz Collins SSB filter	169.99
CT-61	Interface cable; FT-847 to amp	15.99
DSP-2	DSP unit for original FT-857	39.99
DVS-2	Digital voice module; Mk V/Field	229.99
E-736	DC cable for FT-736R	19.99
FC-10	External coax fed auto tuner; FT-840	329.99
FC-800	External long wire auto tuner	429.99
FIF-232C	RS-232 interface; FT840/FRG100B	99.99
FM-747	FM unit; FT-840	69.99
FP-1023	23A switching ps w/fan, 25A surge	169.99
FP-1030A	25A ps, 30A surge w/meters	269.99
FRB-5	Relay board; FTV-1000/original MP	29.99
MH-3608	TTP mobile mic; FT-847	69.99
MMB-20	Mobile mount; FT-840	24.99
MMB-66	Mobile mounting bkt; FT-847	39.99
MMB-67	Quick release bracket; FT-100D	24.99
SP-8	External speaker w/filters; Mk V/Field	174.99



# Yaesu - continued

	AES Price
T-9018320 DC cable; FT-840/847/Field .....	29.99
T-9021925 Extra DC cord; FT-100D .....	39.99
TCXO-4 TCXO unit; FT-840/FRG-100B .....	109.99
XF-117A 6 KHz AM filter; FT-100D .....	129.99
XF-117CN 300 Hz CW filter; FT-100D .....	69.99
YA-007FG FG whip w/bpr mt; 80-10m use tuner .....	169.99
YA-30 1.8-30 MHz broadband dipole ant .....	259.99
YF-110CN 250Hz 3rdIFCWfilt;FRG/MKV&Field .....	119.99
YF-110SN 2KHz 3rd IF SSB filt;Mk V/Field .....	119.99
YF-112A 6 KHz AM filter; FT-840 .....	99.99
YF-112C 500 Hz CW filter; FT-840 .....	99.99
YF-114CN 250Hz 2nd IF CW filt;Mk V/Field .....	119.99
YF-114SN 2KHz 2nd IF SSB filt;Mk V/Field .....	119.99
YF-115C 500Hz CW Collins filt;FRG/MKV&Field .....	119.99
YF-116A 6 KHz AM filter for FT-920 .....	99.99
YF-116C 500 Hz CW filter for FT-920 .....	99.99
YH-77STA Open-air type stereo headphones .....	59.99
YSK-100 Separation kit for FT-100D .....	99.99

## Quadra System VLP1000 HF+6m amp/ps/tuner 3899.99

VR-120D Pack w/CA34/FNB79/NC82/PA30B .....	189.99
CA-34 Charger sleeve; NC-82/VR-120D .....	5.99
CSC-76 Soft case for VR-120/D .....	19.99
EDC-15 DC adapter .....	39.99
FNB-79 Nicad battery for VR-120D .....	10.99
NC-82 Charger stand .....	9.99
PA-30B AC adapter .....	8.99

## VR-500 Pack HH Rcvr w/FNB-79/NC-60B 299.99

ADMS-3 Windows programming software ..	39.99
CSC-72 Soft case for VR-500 .....	19.99
EDC-5B DC adapter w/noise filter .....	26.99
EDC-6 DC adapter; plug & wire only .....	8.99
FNB-59 Nicad battery for VR-500 .....	19.99
FNB-79 Nicad battery for VR-500 .....	10.99
NC-60B Wall charger .....	16.99

## VR-5000 .1M-2.6G base rcvr AM/FM/SSB/cell bkld \*569.99

**\*Price after instant coupon; coupon expires 10/31/07**

DSP-1 DSP unit .....	119.99
DVS-4 Digital voice recorder .....	49.99
FM Unit-100 FM unit for FRG-100B .....	19.99

## FTM-10R 50w 2m/40w 440 FM Xcvr/int mic 379.99

## FTM-10SR 10w 2m/7w 440 FM Xcvr/int mic 379.99

Bluetooth Kit Kit w/BH-1/BU-1/CAB-1 .....	199.99
CT-M10 20' separation cable .....	31.99
MEK-M10 Microphone jack .....	14.99
MEK-68A6J Waterproof DTMF hand mic .....	59.99
MLS-200-M10 Waterproof external speaker .....	40.99
MMB-M10 Multi-angle stand bracket .....	30.99
MMB-M11 Multi-angle handle bar bracket .....	30.99
YHA-M10 2m/440 0/3db 19.7" antenna .....	40.99
AMK-1 License plate bracket for YHA-M10 .....	23.99
COX-2MM 6.6' coax cable for YHA-M10 ..	32.99

## FT-7800R 50w 2m/40w 440 FM Xcvr/WX alert \*249.99

**\*Price after instant coupon; coupon expires 10/31/07**

**FREE YSK-7800 with FT-7800R thru 10/31/07!**

ADMS-2K Windows programming software ..	39.99
CT-39A Packet cable .....	11.99
MLS-100 Mobile speaker .....	49.99
MMB-60 Quick release mobile mount .....	39.99
T-9021715 Extra DC cable .....	12.99
YSK-7800 Remote separation kit .....	49.99

## FT-8800R 50w 2m/35w 440 FM Xcvr 374.99

**FREE YSK-8900 with FT-8800R thru 10/31/07!**

ADMS-2I Windows programming software ..	39.99
CT-39A Packet cable .....	11.99
MLS-100 Mobile speaker .....	49.99
MMB-60 Quick release mobile mount .....	39.99
MMB-62 Remote front panel mounting bkt ...D	44.99
T-9021810 Extra DC cable .....	12.99
YSK-8900 Remote separation kit .....	49.99

## FT-8900R 50w 10m/6m/2m/35w 440 FM Xcvr 424.99

**FREE YSK-8900 with FT-8900R thru 10/31/07!**

# Yaesu - continued

	AES Price
ADMS-2H Windows programming software ..	39.99
CT-39A Packet cable .....	11.99
MLS-100 Mobile speaker .....	49.99
MMB-60 Quick release mobile mount .....	39.99
MMB-62 Remote front panel mounting bkt ...D	44.99
T-9021810 Extra DC cable .....	12.99
YSK-8900 Remote separation kit .....	49.99
AD-3 100w 2m/440 duplexer .....	39.99
ADMS-2E Windows prog soft; FT-2600M/90R ..	39.99
ADMS-2F Windows prog software; FT-1500M ..	39.99
ADMS-2G Windows prog soft; FT-7100M ...D	19.99
RA-0242900 Extra mobile bkt; FT-1500M ...D	2.99
FTM-10R 50w 2m/40w 440 FM/internal mic ..	379.99
CT-M10 20' separation cable .....	31.99
MEK-M10 Microphone jack .....	14.99
MEK-68A6J Waterproof DTMF hand mic .....	59.99
MLS-200-M10 Waterproof external speaker .....	40.99
MMB-M10 Multi-angle stand bracket .....	30.99
MMB-M11 Multi-angle handlebar bracket ..	30.99
FT-1802M 50w 2m FM Xcvr w/WX .....	*129.99

**\*Price after instant coupon; coupon expires 10/31/07**

ADMS-1802 Windows programming software ..	39.99
MLS-100 Mobile speaker .....	49.99
FT-2800M 65w 2m FM Xcvr w/WX alert .....	*139.99
ADMS-2J Windows programming software ..	39.99
MLS-100 Mobile speaker .....	49.99
S-8002051/MMB-83 Extra mobile bracket ..	4.99
S-8101436 Extra DC cable .....	7.99

## FP-1023 23A switching ps w/fan, 25A surge 169.99

## FP-1030A 25A ps, 30A surge w/meters 269.99

## HRI-100 WIRES II interface box 149.99

## LF-1 Mobile 13A DC noise filter 29.99

## MLS-100 Mobile speaker 49.99

## VXR-7000VA/Vertex 50w 2m FM AC/DC rpt 1269.99

## VX VPL-1 Repeater programming cables ... 87.99

Repeaters require service dept set-up; \$45 minimum

## Accs for FT-23/33/73/411/811/470/911

CSC-24S Soft case; FT-23/33/73 w/FNB-12S ...D	\$ .09
FBA-17 AA battery holder .....	19.99
FNB-17 7.2v 600mah battery .....	39.99

## ADMS-1E Windows prog software; VX-5R ...D 39.99

## CLIP-10 Spring loaded belt clip; FT-50 ...D 2.99

## CSC-68 Soft case; FT-50/FNB-41/FBA-15 .. 12.99

## CSC-71 Soft case for VX-1R ..... 1.99 |

## CSC-73 Soft case for VX-5R ..... 12.99 |

## CSC-V10 Cordura soft case; FT-10/40/50 ...D 14.99

## FBA-15 4-AA battery holder; FT-50RD ...D 19.99

## FBA-20 Battery holder for VX-1R ..... 19.99 |

## FBA-21 6-AA battery holder; FT-50RD ...D 39.99

## FNB-V47 7.2v 1100mah battw/belt clip; FT-50 .. 44.99

## LCC-10S Leather case/swivel; 50/FNB41/V47 ...D 19.99

## NC-60B Wall charger for FT-10/50 ..... 16.99 |

## CA-15 Charging stand; NC-60B; FT-10/50 D 19.99

## Q-3000166 Replacement duck ant for VX-5R .. 30.99

## YHA-54 2m/440 duck antenna ..... 14.99 |

## FT-60R 5w 2m/440 FM HT ..... 189.99 |

## ADMS-1J Windows programming software .. 39.99 |

## CN-3 BNC to SMA adapter ..... 11.99 |

## CT-27A Cloning cable ..... 14.99 |

## CT-44 2-pin spkr/mic adapter ..... 14.99 |

## EDC-5B DC adapter w/noise filter ..... 26.99 |

## EDC-6 DC cord; plug & wire only ..... 8.99 |

## FBA-25 6 AA cell battery case ..... 20.99 |

## FNB-83 7.2v 1400mah NiMH battery ..... 65.99 |

## MH-34B4B Speaker/mic ..... 38.99 |

## MH-37A4B Earpiece/microphone ..... 40.99 |

## VAC-370 Rapid charger ..... 79.99 |

## VC-25 VOX headset ..... 69.99 |

# Yaesu - continued

## VX-150 5w 2m FM HT/16-key TTP ..... \*117.99 |

**\*Price after instant coupon; coupon expires 10/31/07**

**FREE extra FNB-64 with VX-150 thru 10/31/07!**

## ADMS-1F Windows programming software .. 39.99 |

## CN-3 BNC to SMA adapter ..... 11.99 |

## CT-27A Cloning cable ..... 14.99 |

## CT-44 2-pin spkr/mic adapter ..... 14.99 |

## CT-53 Packet cable ..... 9.99 |

## EDC-5B DC adapter w/noise filter ..... 26.99 |

## EDC-6 DC cord; plug & wire only ..... 8.99 |

## FBA-25 6 AA cell battery case ..... 20.99 |

## FNB-V57 7.2v 1100mah battery ..... 49.99 |

## FNB-64 Extra 7.2v 700mah battery ..... 36.99 |

## LCC-150/TT Leather case ..... 29.99 |

## LCC-150S/TT Leather case w/swivel ..... 36.99 |

## MH-34B4B Speaker/mic ..... 38.99 |

## MH-37A4B Earpiece/microphone ..... 40.99 |

## NC-72B Extra wall charger ..... 19.99 |

## VAC-400B 1-hour desk top rapid charger .. 69.99 |

## VC-25 VOX headset ..... 69.99 |

## VX-170 5w 2m FM HT/16-key TTP ..... \*119.99 |

**\*Price after instant coupon; coupon expires 10/31/07**

## VX-177 5w 440 FM HT/16-key TTP ..... 149.99 |

## ADMS-VX170 Windows prog software; VX-170 39.99 |

## ADMS-VX177 Windows prog software; VX-177 39.99 |

## CD-26 Charger cradle ..... 30.99 |

## CMP-460A Waterproof speaker/mic ..... 69.99 |

## CN-3 BNC to SMA adapter ..... 11.99 |

## CT-91 Microphone adapter ..... 12.99 |

## EDC-5B DC adapter w/noise filter ..... 26.99 |

## EDC-6 DC cord; plug & wire only ..... 8.99 |

## FBA-25 6 AA cell battery case ..... 20.99 |

## FNB-83 7.2v 1400mah NiMH battery ..... 65.99 |

## MH-57A4B Speaker/mic ..... 30.99 |

## VAC-370 Rapid charger ..... 79.99 |

## VC-24 VOX headset ..... 79.99 |

## VC-27 Earpiece/microphone ..... 34.99 |

## VX-2R 1.5w 2m/1w 440 submini HT/lith ion D \*139.99

**\*Price after instant coupon; coupon expires 10/31/07**

## ADMS-1H Windows programming software .. 39.99 |

## CN-3 BNC to SMA adapter ..... 11.99 |

## CSC-90 Soft case ..... 19.99 |

## CT-27A Cloning cable ..... 14.99 |

## CT-44 2-pin spkr/mic adapter ..... 14.99 |

## EDC-21 DC adapter ..... 42.99 |

## FNB-82LI Extra 3.7v 1000mah lith ion batt 38.99 |

## MH-34B4B Speaker/mic ..... 38.99 |

## MH-37A4B Earpiece/microphone ..... 40.99 |

## VC-25 VOX headset ..... 69.99 |

## VX-3R 1.5w 2m/1w 440 submini HT/lith ion 179.99

## CN-3 BNC to SMA adapter ..... 11.99 |

## CSC-92 Soft case ..... 15.99 |

## CT-27A Cloning cable ..... 14.99 |

## CT-44 2-pin spkr/mic adapter ..... 14.99 |

## EDC-21 DC adapter ..... 42.99 |

## FBA-37 3 AA cell battery case ..... 20.99 |

## FNB-82LI Extra 3.7v 1000mah lith ion batt 38.99 |

## MH-34B4B Speaker/mic ..... 38.99 |

## MH-37A4B Earpiece/microphone ..... 40.99 |

## VC-25 VOX headset ..... 69.99 |

## VX-6R 5w 2m/440/1.5w 220 FM HT 249.99

## ADMS-VX6 Windows programming software 39.99 |

## CD-15A Charger stand (use with NC-72B) 34.99 |

## CMP-460A Waterproof speaker/mic ..... 69.99 |

## CN-3 BNC to SMA adapter ..... 11.99 |

## CSC-91 Soft case ..... 15.99 |

## CT-91 Microphone adapter ..... 12.99 |

## EDC-5B DC adapter w/noise filter ..... 26.99 |

## EDC-6 DC cord; plug & wire only ..... 8.99 |

## FBA-23 2 AA cell battery case ..... 29.99 |

## FNB-80LI Extra 7.4v 1300mah lith ion batt 79.99 |



## Yaesu - continued AES Price

MH-57A4B Speaker/mic .....	30.99
NC-72B Extra wall charger .....	19.99
SU-1 Altitude/barometric pressure sensor ...	39.99
VC-24 VOX headset .....	79.99
VC-27 Earpiece/microphone .....	34.99
VX-7R Silver 5w 6m/2m/440/300mw 220 FM HT	*294.99
*Price after instant coupon; coupon expires 10/31/07	
VX-7RB Black 5w 6m/2m/440/300mw 220 FM HT	*294.99
*Price after instant coupon; coupon expires 10/31/07	
ADMS-1G Windows programming software .....	39.99
CD-15A Charger stand (use with NC-72B) .....	34.99
CMP-460A Waterproof speaker/mic .....	69.99
CN-3 BNC to SMA adapter .....	11.99
CSC-88 Soft case .....	15.99
CT-91 Microphone adapter .....	12.99
EDC-5B DC adapter w/noise filter .....	26.99
EDC-6 DC cord; plug & wire only .....	8.99
FBA-23 2 AA cell battery case .....	29.99
FNB-80LI Extra 7.4v 1300mah lith ion batt .....	79.99
MH-57A4B Speaker/mic .....	30.99
NC-72B Extra wall charger .....	24.99
Q-3000185 Replacement duck ant .....	29.99
SU-1 Altitude/barometric pressure sensor ...	39.99
VC-24 VOX headset .....	79.99
VC-27 Earpiece/microphone .....	34.99

## ANTENNA ROTORS

G-450A 10 sq ft antenna rotor/5-wire .....	\$259.99
G-550 12 sq ft elevation rotor/6-wire .....	299.99
G-800SA Med/hvy duty 450 degree 17sq ft/5-wire	339.99
G-800DXA Med/hvy duty 17sq ft/presets/5-wire	429.99
G-1000DXA HD 450 degree 23sq ft/presets/6-wire	519.99
G-2800DXA HD 450 degree 34sq ft/presets/6-wire	1139.99
Note: G-2800DXA comes w/40m (131') of rotor cable	
G-5500 11 sq ft azimuth/elevation rotor/2x6-wire	629.99
GA-3000 Tower absorber joint; G-1000/2800	109.99
GC-038 Mast clamp; G-450/800/1000/5500	39.99
GC-048 Mast clamp; G-2800 .....	49.99
GL-33 Mast adjustment plate .....	18.99
GS-050 50mm thrust bearing; mast 1 1/2" ...	39.99
GS-065 65mm thrust bearing; mast 1 1/2" ...	54.99
GS-232B Computer interface; DXA rotors .....	589.99
G-1000 Interface cable; GS-232A/B - SDX/G5500	34.99
GS-680U Universal self-adjusting mast bearing	109.99
Sep Kit Separation kit for G5500 .....	29.99

## See BELDEN for rotor cable

## CONSUMER ELECTRONICS

VXA-710 Spirit 5w air handheld .....	\$359.99
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## CLOSE-OUTS

ALA Zap Checker/180 Transmitter/bug detector	\$ 89.99
ALI DR-135TP Mk II Blk 50w 2m FM/9600 TNC	239.99
ALI DR-435T Mk II Black 35w 440 FM Xcvr ...	239.99
ALI DR-620T 50/35w 2m/440 FM Xcvr .....	299.99
ALI DR-M06TH 20w 6m FM Xcvr/encoder .....	229.99
ALI EDC-97 Quick charger; NiMH batt packs	69.99
ALP Delta-4/N 1.3 GHz 4-pos N switch/protector	79.99
ALP DX-40/20 40/20m 40' low profile dipole ant	79.99
ALP Pathfinder 1.8-30+6m dig auto ant tuner	199.99
AOR ARD-9000 Digital SSB interface .....	269.99
AOR AR-3000AB 1-2036MHz dx w/SB/cell bkld	899.99
AOR LA-350 3-30MHz active loop antenna ...	269.99
AOR SDU-5500 Spectrum disp unit/PC interf	799.99
AOR SDU-5600 Spectrum disp unit/PC interf	1199.99
ASR RS-12S 9A ps, 12A surge, w/speaker ....	79.99
ASR RS-35A/220V 220v 25A ps, 35A surge ..	139.99
AVM G-4T Geosat 4 GPS/THD7A/TMD700A cable	599.99
B&W AP-10B 51" port 40/20/15/10/6/2m ant ..	89.99
BEN BY-3 Iambic keyer paddle, gold plated ..	299.99
BOU Fast Tracker Metal detector/2-tone target ID	69.99
BUS 78-2010 4.5" reflector telescope .....	99.99
CEL 52211 60mm wildlife zoom spot scope/tripod	79.99

## Close-Outs - continued AES Price

CEL 93497 Standard tripod .....	69.99
CSY CS-800 Desk duplex interconnect/rptr controller	299.99
CSY CS-900 Desk simplex interconnect .....	299.99
CUS MA-5V 20/17/15/12/10m 14.7' vert ant	239.99
CUS MA-6V 20/17/15/12/10m 14.7' vert ant	299.99
DAV 7400 Perception II indoor weather unit ..	134.99
DAV 7440 Monitor II weather station .....	249.99
DAV 7859 External temp/humd Sensor II; 7440	79.99
DIA 2400-Y12 2.4GHz 12db 8el 15"bm 25w N	99.99
DIA G-200 2.4GHz 11db 6' N base antenna ..	169.99
DIA MG-200 2.4GHz 7db 23.6" N mobile ant	79.99
DIA MX-324D 2m/220/440 triplexer, no cables	79.99
DIA U-200 440/1.2GHz 8.3/11.7db 6' N base	99.99
GAR c4Que-1620 GPS module for Pocket PC's	149.99
GAR eTREX 12 ch mini GPS receiver .....	89.99
GAR eTREX Summit 12ch mni GPS/compass/baro	129.99
GAR GA-26C Low profile remote ant w/cbl/BNC	79.99
GAR Geko-101 Small GPS receiver .....	69.99
GAR Geko-201 Small GPS receiver w/WAAS ..	99.99
GAR GPS-12XL GPS receiver .....	129.99
GAR iQue-3600 Handheld PDA/integrated GPS	369.99
GAR Rino-120 GPS/FRS/GMRS/8mb mem/basemap	199.99
GAR StreetPilot 2610 Deluxe GPS .....	499.99
GAR StreetPilot C330 Dlx GPS w/software ....	299.99
GRU E-10 Portable AM/FM/SW receiver w/ps ..	99.99
HAL RTTY-1 RTTY tuning indicator .....	89.99
HEI BM-5-4 Boom mic/sgl headset (HC-4) ...	69.99
HEI BM-5-iC Bm mic/sgl headset/adaptor; lcom	79.99
HEI GM-V Goldline vintage studio mic/matching xfmr	129.99
HEI HCL-4 Classic 1930s desk mic/studio el & HC-4	229.99
HEI HM-10-4 Mic with HC-4 element .....	69.99
ICO AH-2B extra whip only .....	99.99
ICO BC-119-N11 Nicad/NiMH desk cgr (use adapt)	89.99
ICO BC-119-N21 Nicad/NiMH desk cgr; T81A ..	99.99
ICO BC-135 Desktop charger/adaptor; R-3 ...	79.99
ICO BP-172 4.8v 950mah battery .....	79.99
ICO BP-173 9.6v 600mah battery .....	119.99
ICO BP-180 7.2v 600mah battery .....	83.99
ICO BP-200L 9.6v 760mah NiMH batt; T81A	79.99
ICO IC-M32 Waterproof 5w VHF marine handheld	149.99
ICO IC-M302W02 White waterproof 25w VHF marine	159.99
ICO IC-M402W02 White waterproof 25w VHF marine	129.99
JRP 317275 XS3 synth FM pistol/1-Z590W1-Z270 75M	99.99
KAN KAM 98 Single port multi-mode dig controller	329.99
KEN AT-50 External HF auto tuner .....	319.99
KEN DFK-7 Dlx 22' rem cable kit; 642/742AD	79.99
KEN DFK-7C Dlx 23' rem cable kit; TMG707A	99.99
KEN PB-34 9.6v 600mah 5w batt; TH-22ATH	79.99
KEN PS-52 Heavy duty ps; TS-870S .....	239.99
KEN PS-53 Heavy duty 22.5A power supply ..	269.99
KEN SO-2 TCXO unit; TS-570D/S .....	179.99
KEN SP-31 External speaker; TS-870S .....	99.99
KEN SP-950 Ext spkr/audio filters; TS-950SDX	149.99
KEN TM-D700A 50w 2m/35w 440 FM/1200/9600 TNC	*469.99
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KEN TS-570S(G) HF Xcvr/6m/AFDSP/tuner/mic ....	*1079.99
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KEN YK-88C-1 500 Hz CW filter; TS-570D/S ..	129.99
KEN YK-88CN-1 270 Hz CW filter; TS-570D/S	129.99
KEN YK-88SN-1 1.8 KHz SSB filter; TS-570D/S	129.99
KEN YK-107C 500 Hz CW filter; TS-50S .....	119.99
KOS QZ/2000 Active noise reduction stereoph	99.99
LAC WS-3610UCH Pro wireless WX station ...	269.99
LAC WS-8025AL Dlx sun/moon wireless WX stn	99.99
LAC WS-9016TWC Sun/moon wireless WX stn	69.99
LDG AT-1000 1000w PEP HF/100w 6m auto tnr	499.99
LOS A0014 XXX-4 4WD electric Competition buggy kit	129.99
MAG SportTrak Color Handheld color GPS/9MB	169.99
MFJ 123 Eternity solar atomic clock .....	69.99
MFJ 1214PC Multimode interface for IBM ....	139.99
MFJ 1224 Computer Interface .....	89.99

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MFJ 442 SlimLine keyer/Benchner combo .....	159.99
MFJ 498 Dlx CW keyboard/kyr w/disp/keyboard	89.99
MFJ 991 150w automatic antenna tuner .....	139.99
MFJ 8621 5w 2m data radio w/145.01 MHz ..	129.99
MID GXT-500VP4 22ch 5w GMRS/FRS hlv/batts .pair	69.99
MIR C-22G 220 FM/SSB 2/20w amp/preamp	149.99
MIR C-211G 220 FM/SSB 2/110w amp/preamp	299.99
MIR C-1012G 220 FM/SSB 10/120w amp/preamp	299.99
MIR D-15N 430 FM/SSB/ATV 2/15w type N amp	179.99
MIR D-26N 440 FM/SSB 2/60w type N amp ..	249.99
MIR D-3010NR 440 FM 12/80w type N amp ..	499.99
NOO NOXG-2 3x G2 night vision scope w/illumin	599.99
ORE WMR-112A Wireless weather station ....	99.99
SAN PR-D2 AM/FM port dark grain "Q" radio	69.99
SON ICF-SW12 AM/FM/SW travel Rcvr/world clock	69.99
SON ICF-SW40 AM/FM/SW portable receiver ..	89.99
TRX 3606 Stampede RTR electric monster truck/ESC	99.99
TRX 3706 Rustler RTR electric stadium truck/ESC	99.99
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UNI BC-92XL2 200 ch pocket scanner/800 ....	99.99
UNI BC1-25D Digital board; BC-785D/250D ..	129.99
UNI Polaris 25w VHF marine Xcvr w/hailer ...	99.99
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VIB 162 Gold Hand key/Iambic Paddle double	339.99
VIB 163 Gold Hand key/VibroKeyer Paddle double	339.99
VIB 175 Std Hand key/Iambic Paddle double	269.99
VIB 180 Std Hand key/VibroKeyer Paddle double	269.99
VIB 198 Blue Racer 2000 Dlx Millennium Bug	199.99
W4R 08F-703/718-DIY cw&sb Collins flts; 703/718	199.99
YAE DVS-2 Digital voice module; Mk V/Field ..	229.99
YAE FC-10 External coax fed auto tuner; FT-840	329.99
YAE FC-800 External long wire auto tuner ....	429.99
YAE FIF-232C RS-232 interface; FRG100B/FT840	99.99
YAE GA-3000 Twr absorber joint; G-1000/2800	109.99
YAE SP-8 External speaker w/filters; Mk V/Field	174.99
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YAE XF-117A 6 KHz AM filter; FT-100D .....	129.99
YAE XF-117CN 300 Hz CW filter; FT-100D ....	69.99
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YAE YF-110SN 2KHz SSB filter; Mk V/Field ....	119.99
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YAE YF-112C 500 Hz CW filter; FT-840 .....	99.99
YAE YF-114CN 250Hz CW filter; Mk V/Field ...	119.99
YAE YF-114SN 2KHz SSB filter; Mk V/Field ....	119.99
YAE YF-115C 500Hz CW Collins flt; FRGMkV&Field	119.99
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ATR20 ANT TUNER	299.99m
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AR3000A DLX RCVR	499.99m
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RS20A POWER SUPPLY	69.99f
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AR220B 220 ANTENNA	49.99m
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MX72D DUPLEXER	34.99m
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AT180 AUTO ANT TUNER	259.99fv
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IC706 HF/6/2M XCVR	449.99f
IC706MKIIG/3 FILTERS	849.99m
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IC746PRO/SMOKER	1099.99m
IC746PRO XCVR	1199.99mf
IC751A HF XCVR	529.99m
IC756PRO HF XCVR	1299.99f
IC756PROII HF/6M XCVR	1879.99c
IC910H 2M/440 XCVR	999.99m
PS125 25A PWR SUPPLY	199.99mf
RMK7000 SEPERATION KIT	84.99m
SM5 MICROPHONE	49.99m
SM8 DESK MICROPHONE	99.99f
<b>KENWOOD</b>	
MC80 DESK MIC	79.99m
PS430 POWER SUPPLY	149.99m
PS52 POWER SUPPLY	169.99m
PS53 POWER SUPPLY	179.99m
TM271A 2M FM XCVR	139.99m
TS570D HF XCVR/CW FLT	669.99m
TS870S HF XCVR	1349.99m
TS950SDX /DRU2+	1999.99m
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AT11MP TUNER	129.99m
Z100 TUNER	99.99f
Z11PRO TUNER	124.99m
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780103 ERRECTING PRISM	19.99m
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CXP08XC3 3' RG8X/PL	13.99f
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LP30 LOW PASS FILTER	62.99v
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<b>WELLER</b>	
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ADMS1H SOFTWARE	34.99m
ATAS120 HF/6/2/430ANT	269.99v
ATAS25 40-430 ANT	224.99c
CSC88 CASE FOR VX7R/RB	13.99c
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FC40 ANTENNA TUNER	179.99m
FIF232C INTERFACE	89.99m
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MEKM10 MIC JACK	13.99c
MH37A4B EARPICE/MIC	34.99mc
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## DR-135T/TP MKIII (2m), DR-435T MKIII (440 MHz), DR-235T MKIII (222 MHz) Mobile/Base

DR-135 includes AM Airband RX. All models have 100 memories, ignition key on/off, theft alarm, large 7 character alpha display, optional internal TNC can be used for packet or APRS™, 9600 packet mode, front data/GPS input, rear DSUB9 connector, H/M/L power out, autodialer, CTCSS and DCS encode+decode, backlit mic, **Extra rugged!** Accepts optional digital voice communications board.



## NEW DR-03T (29MHz) 10M Mobile/Base

Excellent TX/RX audio, large alphanumeric display, remote control from multifunctional back-lit microphone, CTCSS and DCS encode/decode, three-output level, 100 memories, theft alarm, cable-clone and more in a compact, easy-to-use design. **Alinco value and affordability!**



## DJ-596T MKII 2m+440 HT

100 memories, alpha channel labels, NiMH battery, CTCSS and DCS encode+decode, WFM+NFM, theft alarm, 6 ~ 16 VDC input, illuminated keys and display, autodialer, full coverage of both bands, Expanded receive; optional digital voice communications board and more! **Extend your abilities!**



## DJ-C7T 2m+ 440 "Pocket" HT

Meet the "new generation" mini-HT! Internal speaker with great audio, 200 memories, VFO, Memory & Scan modes, CTCSS encode+decode, AM airband RX, wideband FM broadcast, 300mw output, SMA antenna port, Lithium ion battery, cloning feature, split function and more! **Extremely versatile dual-band HT.**



## DJ-V17T 2M HT DJ-V27T 222 MHz HT **NEW** DJ-V47T 440 MHz HT

**Great audio and high grade water-resistant design!**

Full power HTs with large 40mm internal speaker, rugged polycarbonate body compatible to IPX7, 500mW max audio-output, two-touch repeater access, over 200 memories, ergonomic design, ultra-flexible antenna with SMA connector, 39 CTCSS settings, split function, two-level attenuator, backlit alphanumeric display and special battery-drain function to help avoid battery memory-effect. Ni-MH standard; also uses optional Lithium-ion and NiMH battery packs or AA dry cell case. Perfect for outdoor activities.

*Rugged design  
resists moisture,  
dirt and dust!*



## DX-70TH (100w) HF+6m Mobile/Base/Portable

160~6m Amateur band TX in all modes, Extra coverage RX from 150 KHz~30 MHz and 50~54 MHz. Removable face, 100 memories, 2 VFOs, speech compressor, SSB, CW and AM narrow filters, fullbreak-in, multi-function control and MUCH more!

*Optional accessories include EDX-2 wire antenna tuner & DM-330MVT power supply.*



## DM-340MVT IC Regulated Power Supply

30A nominal, 35A peak output. Variable output 0 ~ 15 VDC, convenient front-panel



connections includes high current terminals, cigar lighter (10A) and quick-connect (5A). Built-in circuit protection, convenient front-panel fuse.

## DJ-V5TH, 2m/440 HT\*

Great 2m/440 TX & RX, extended RX range from 76 ~ 999 MHz, wide band FM, alpha display, 200 memories, CTCSS & DCS encode+decode, 5 watts output, compact size, 4 scan modes, split-band ops, auto-dialer, 13.8 VDC direct input. **Excellent performer!**



## DJ-S45T 440 MHz "Micro" HT

**Tiny, but tough.** Rugged polycarbonate design resists impacts, dust & moisture. Features New Quick Repeater Access Mode, 100 memories; any mix of simplex or repeater channels, CTCSS encode and decode (separately programmable). Computer programmable with optional cable, free software at [www.alinco.com](http://www.alinco.com).



## DM-330MVT Communications Grade Switching Power Supply

**Alinco's Experts have reinvented the power supply!** Extremely quiet with a patented noise shift circuit, but we'll be surprised if you ever need to use it. It's small, lightweight and powerful! 30A continuous, 32A peak output, but weighs less than 5 lbs. Variable output from 5 ~ 15 VDC, memory output setting, lighted V/A meter, front panel cigar (10A) and quick-connect (5A) terminals, rear panel high-current connections. Ripple less than 15 mV p-p.

**Extra versatile, use for travel, station or test bench.**



**www.ALINCO.com**

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Products intended for properly licensed operators. Permits required for MARS use. CAP use subject to equipment approval. Specifications subject to change without notice or obligation. Performance specifications only apply to amateur bands. \*Cellular blocked in USA. Unblocked versions available to qualified users. Documentation required.

ALL warranty claims and requests for repair/technical assistance for Alinco products should be sent to Ham Distributors regardless of contact information found on the warranty certificate packed with the product.



# Catch ALL the excitement!

## DJ-X7T Wide Range Pocket Size Communications Receiver

100KHz to 1.3GHz\* Triple conversion AM/NFM; double conversion WFM, plus FM, SW, and TV Super small "credit card" size (as thin as 14.5 mm, as light as 103g) delivers AMAZING audio quality! Easy to read illuminated LCD, 1,000 memory channels, five operating modes, three different antenna modes, easy to program with free downloadable software (optional cable required), cable-clone, and a long-lasting Lithium ion battery! Standard adapter charges the Li-Ion battery AND operates with AC power, even at the same time, so you can listen while charging.



## DJ-X30T Wide Range Communications Receiver

*captures shortwave signals and more*  
100 KHz to 1.3 GHz\* Triple conversion AM/NFM; double conversion WFM, optional EDS-12 cable can be used for remote control and AUX capability, 1,000 memory channels, easy to program memory banks, five scan modes, memory lock-out function, selectable keyboard system enables everyone from beginner to experienced operators to enjoy advanced features, use with or without removable keypad, 7.1oz compact design, five operating modes, internal AA battery, three different antenna modes. Download free control software from [www.alinco.com](http://www.alinco.com)



## EDX-2 Automatic Wire Antenna Tuner

*Helps users get on the air fast!* Ground it, connect a wire and plug it into your rig. Tunes random length wires from 9 ~ 80 feet. Covers 160 ~ 10 meters. (minimum 40 feet of wire needed for use on 160m) Compatible with DX-70 and DX-77 transceivers. Made for indoor/outdoor mounting, use at home, mobile or in the field. Outputs directly to a wire or whip antenna only (no coax output).



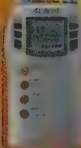
## DJ-X2000T Multimode Wide Range "Intelligent" Receiver

*Monitoring Excitement* is found in the "Intelligent Receiver" from 100 KHz ~ 2150 MHz\* with 2000 memories, alphanumeric labeling, receives AM, WFM, NFM, LSB, USB, CW and FM stereo.\*\* On-line "help" feature, 20 scan programs, computer programmable (download free software from Alinco website), Channel Scope™ display, Transweeper™, RF frequency counter, digital sound recorder, CTCSS decode, 2 level attenuator, field strength meter, instant "flash tune" and many Extras!



## DJ-X3TD Multimode Wide Range Communications Receiver

*Exceptional and unique!* Small but powerful. Receives 100 KHz ~ 1.3 GHz\*, AM, NFM, WFM, 700 memory channels, dry cell battery pack, four scan modes, stereo FM reception.\*\* Download free control software from [www.alinco.com](http://www.alinco.com)



[www.ALINCO.com](http://www.ALINCO.com)

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Cellular disabled in USA. Unlicensed versions available to military users, documentation required. \*\*Optional stereo headphones required. Specifications subject to change without notice or obligation.

# Accurate Measurements NO EXCUSES.

Professionally Engineered Cross Needle Meters

Forward power, reflected power and VSWR are displayed simultaneously! No calibration required! Daiwa high quality instruments make the tedious measuring of SWR and Power during antenna tests, transmitter matching and tuning a very easy task.



## Professional Series

Accurate and dependable featuring a large, easy-to-read lighted meter. 13.8VDC jack on rear panel. 6" x 4 1/2" h x 4 1/2" d (approx.)

CN-801HP

PEP Reading SWR/Power Meter

Frequency Range: 1.8-200MHz

Forward Power Ranges: 20/200/2000W

CN-801V

Frequency Range: 140-525MHz

Forward Power Ranges: 20/200W

CN-801S

Frequency Range: 900-2500MHz

Forward Power Ranges: 2/20W



## Economy Series

Accurate and dependable bench meters at an economy price.

Lighted, 13.8VDC jack on rear panel.

6" x 3 1/2" h x 4" d (approx.)

CN-101

Frequency Range: 1.8-150MHz

Forward Power Ranges:

15/150/1500W

CN-103M

Frequency Ranges: 140-525MHz

Forward Power Ranges: 20/200W

CN-103N (N-Type Conns)



## NEW! POWER SUPPLY

SS-330W

Convenient, lightweight 30 amp switching supply.

30 amps continuous

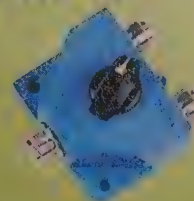
Dual meters

Adjustable voltage (5-15V)

Built-in fan

Weights less than 5 lbs.

Carrying handle



## Coax Switches

Patented design and excellent RF characteristics. Automatic grounding of unused circuits with heavy-duty die cast cavity construction.

CS-201

2 Position 600MHz Switch

Max. Power: 25kW PEP/1kW CW

Conns: SO-239

CS-201GII

2-Position 2GHz Switch

Max. Power: 15kW CW

Conns: Gold plated N-Type



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(714) 630-7024 fax

[www.natcommgroup.com](http://www.natcommgroup.com)



**HF/6M BASE**

**DX-70TH** Compact 100W HF/6M Transceiver  
Covers 160 to 6 meters with 150 kHz to 30 and 50 to 54 MHz receive with SSB, CW, AM, FM modes. Detachable face; 100 multi-function memories; Dual VFOs; Split operation; Quick offset; Narrow filter; Noise blanker; Speech processor; CTCSS for 10 and 6 meter repeaters; Full, semi or auto break-in CW; All mode squelch; Two scan modes; Separate HF and 6M antenna connections; RIT; TXIT; Selectable AGC; Dial lock; Auto antenna tuner interface. Dim: 2.3" h x 7" w x 9" d; 8.3 lbs. .... **\$749.99**

**Available Accessories**

DM330MVT 30A switching power supply with meter, DM340MVT 30A power supply w/meters, EBC8 Front control head bracket, EBC9 Extra mobile bracket, EDS5 5' mic extension cable, EDS6 15' remote cable, EDX2 160-10M auto wire tuner, EMS14 Desk mic, PC25 DC cable

**6M & 10M MOBILES**

**Common Features:** 100 alphanumeric memory channels, VFO/Memory/Program scan with Busy/Timed settings and Tone scan. Tone squelch (Encode/Decode tone separately selectable), DCS, DTMF tones featuring 10 programmable memories (Auto-Dialer) and 4 tone-burst tones. Direct frequency input and control of major functions via the backlit microphone keypad. Time-out-timer; Auto-power-off; Busy-channel lockout; Theft alarm; Ignition key on/off feature (with optional cable). Cloning cable included. Dim: 5.85" w x 1.57" h x 6.83" d, 2.21 lbs.

**DR-06T** 6M FM Transceiver - Covers 50 to 53.995 MHz. Power: 50W (High), 20W (Mid), 5W (Low). With the optional EJ-41U TNC board, the DR-06T can be instantly switched from voice to 1200/9600bps packet. 13.8VDC @ 11A. **\$259.99**

**DR-03T** 10M FM Transceiver - Looks like the DR-06T. Covers 28 to 29.695 MHz. Power: 10W (High), 5W (Mid), 1-4W (Low). 12VDC @ 3A. .... **\$259.99**

**Available Accessories:**

DR-06T ONLY: EDC37 Key ON/OFF cable, EDC43 Key ON/OFF cable for cigar socket, EJ41U TNC board, EJ47U Digital Voice modem

**ALINCO**  
AMATEUR RADIO'S VALUE LEADER™

**6M MOBILE**

**DR-M06TH** 6M FM Transceiver - Covers 50-54 MHz FM. Selectable 20/1W output; 100 memories + CALL channel; 50 tone CTCSS encoder; Programmable repeater offset for each memory channel; Time-out timer; DTMF hand mic.; 13.8VDC @ 3A. Dim: 5.5" w x 1.5" h x 4.5" d; 1.6 lbs. **C/O \$229.99**

**Available Accessories:**

HK130 Hardware kit, MB130 Mnt. bracket, PC15B DC cable

**VHF & UHF MOBILES**

**DR-135TMKIII** 2M Mobile Transceiver - Covers 144-148 MHz transmit with 118-135.995 MHz (AM aircraft) & 136-173.995 MHz receive. Power levels: 50/10/5W; Wide/Narrow FM; 100 alphanumeric memories; Large alphanumeric LCD display; Dimmer; TXCO with  $\pm 2.5$ ppm stability; CTCSS encode/decode/DCS, Four European tone bursts; Backlit DTMF microphone; Ten autodial memories; Multiple scanning modes; Front panel GPS input for APRS; Rear PC connection; Ignition key On/Off feature; Theft deterrent system alarm; Timeout timer; Mobile bracket with hardware, DC cord, alarm cable; Optional TNC; 13.8V DC @ 11A. Dim: 5.58" w x 1.57" h x 6.83" d; 2.3 lbs. .... **\$169.99**

**DR-135TPMKIII** - Same as 135TMKIII with addition of the TNC for 1200/9600bps packet and APRS operation. .... **\$269.99**

**DR-235TMKIII** - Covers 222-224.995 MHz TX & 216-279.995 MHz RX; 25W/10/5W out. **\$249.99**

**DR-435TMKIII** - Covers 430-450 MHz TX & 350-511.995 MHz RX; 35/10/5W output **\$269.99**

**Available Accessories:**

EDC37 DC cable, EDC43 Cigarette lighter cable, EJ41U 1200/9600 TNC (TMKIII's only), EJ47U Digital board, ERW4 PC cable, ERW7 USB PC cable, HK130 Hardware kit, MB130 Mounting bracket, PC15B DC cable, SW620 Windows programming software



**DR-635T** Twin band Mobile Transceiver - Transmit coverage: 144-147.995 and 430-449.995 MHz; Receive coverage: 108-173.995 and 335-480 MHz includes VHF AM air band and FM broadcast (87.5-108 MHz). 200 alpha memories. Power: (VHF) 50/20/5W and (UHF) 35/20/5W. Dual band receive capability (V/V, U/U, V/U and U/V) with cross-band repeat. Large, three color LCD shows status icons and alphanumeric tags. CTCSS & DCS encode/decode + 4 different tone bursts. Includes: auto power off, time out timer, tone burst, scan, lock-out, dimmer, VFO auto program, theft alarm, narrow FM, supply voltage display and remotable head. Rear fan for cool operation during transmit. The front panel is remotable via the optional EDS-9 separation kit. Advanced Digital Mode (10F3) with speech compression is provided via the optional EJ-47U board. The supplied DTMF hand microphone allows setting parameters an direct frequency entry. Includes DC cable, mobile mounting bracket with hardware, anti-theft (ACC on/off) function cable and anti-theft sticker. .... **\$369.99**

**DR-620T** Twin band Mobile Transceiver - Same as DR-635T above but does not have cross band repeat or three color display. Power levels are 50W (VHF) & 35W (UHF). .... **Closeout \$299.99**

**Available Accessories for DR635T & DR-620T:**

EDS9 Separation kit, EJ47U Digital board, EJ50U TNC unit, ERW4 PC cable, ERW7 USB PC cable, HK130 Hardware kit, MB130 Mounting bracket, PC15B DC cable, SW620 Windows prog. software

**ALINCO**



**DR-330MVT** Switching Power Supply (left) Small, lightweight but provides 30A cont., 32A peak with variable voltage (5-15 VDC). Lighted V/A meter. Rear panel high current terminals and front panel cigar and quick disconnect terminals. Dim: 6.8" w x 2.6" h x 6.5" d, 4.4 lbs. .... **\$179.99**

**DR-340MVT** Conventional Power Supply (right) - Provides 30A continuous, 35A maximum at 50% duty cycle with variable voltage (0-25 VDC). Forced-air cooled; Separate Volt and Amp meters; Large 16mm main terminals plus 2 pairs of auxiliary snap-in terminals, cigar socket and fuse holder on the front panel. Dim: 9.25" w x 6.02" h x 9.06" d, 20.7 lbs. .... **\$199.99**

**MFJ LOW POWER TRANSCEIVERS****SINGLE BAND CW**

Easy operation, set up in seconds to enjoy CW DXing or rag chewing wherever your go. Hot superhet receiver with super quiet FET post amp stage in the IF filter for great sensitivity. Excellent selectivity from the tight CW bandwidth crystal ladder filter that fights QRM and noise. Smooth and stable VFO with reduction drive and RIT. Full 5W power output. Semi-QSK operation with adjustable hold T/R switching or set for full QSK. Built-in 3 inch. speaker. Low power drain, only 50mA on RX and 1.2A peak on TX. Dim: 2.5" h x 6.5" w x 6" d; 2 lbs.

**Four different models:**

**9015** - 15M, 5W .... **\$189.99** **9030** - 30M, 5W .... **\$189.99**  
**9020** - 20M, 5W .... **\$189.99** **9040** - 40M, 5W .... **\$189.99**

**SINGLE BAND SSB**

Easy operation, reduction drive analog VFO allows tuning the band for signals quickly, then zeroing in smoothly. Features Constant Current™ syllabic speech processing for an added 4-6dB advantage to cut through conditions. Low noise preamp and active double balanced mixer front end with a sharp 2.3 kHz SSB crystal ladder filter. Draws only 3 Amps from 12V supply or battery. TVI protection with a built-in lowpass filter; Real S-meter; Hand Microphone; Amplifier key jack. Dim: 2.5" h x 6.5" w x 6" d; 2 lbs.

**Six different models:**

**9402X** 2M, 7W .... **\$269.99** **9420X** 20M, 20W.. **\$249.99**  
**9406X** 6M, 10W.. **\$269.99** **9440X** 40M, 12W.. **\$249.99**  
**9410X** 10M, 20W. **\$259.99** **9475X** 75M, 12W. **\$249.99**

See the Price Guide under MFJ for available accessories for these models



## SINGLE BAND HANDHELDS



**DJ-V17T** 5W 2M Handheld - Covers 144-148 MHz with 130-173.995 receive and 200 memories. Ruggedly built to IPX7 standards (can be submersed in 3 ft. depth of water for up to 30 minutes). 5W output; back-lit alphanumeric display and direct keypad frequency entry; 39 Tone CTCSS Squelch; 104 Tone Digital Code Squelch (DCS); 4 Tone Bursts; 9 D T M F A u t o d i a l Memories; Scanning; Time-out Timer. Tuning steps: 5, 10, 12.5, 15, 20, 25 and 30 kHz. A 500mW audio amp provides abundant audio. Comes

with AC charger adapter, Ni-MH battery and SMA flexible antenna, belt clip and hand strap.

Dim: 2.28" w x 4.33" h x 1.43" d, 9.9 oz. .... **\$129.99**

**DJ-V27T** 5W 220 MHz Handheld - Similar to the DJ-V17T above, but covers 222-224.995 MHz with 216-249.995 MHz receive. Power: 5W .... **\$159.99**

**DJ-V47T** 4.5W 440 MHz Handheld - Similar to the DJ-V17T above, but covers 430-449.995 MHz with 410-470 MHz receive. Power: 4.5W **\$149.99**

### Available Accessories:

EBP63 7.4V 1100mAh Li-Ion battery, EBP64 7.4V 1600mAh Li-Ion battery, EBP65 7.2V 700mAh NiMH battery, EBP66 7.2V 2000mAh NiMH battery, EDC16B Cigarette lighter cable, EDC36 Angle plug power cable with filter, EDC37 DC cable, EDC144 Rapid charger, EDH34 Dry cell case, EDS10 Mic/speaker cable, EDS11 Clone cable, EMS62 Speaker/mic, ERW4 PC cable, ERW7 USB PC cable, ESC41 Soft case

## UHF SINGLE BAND HANDHELDS



**DJ-S40T** Pocket-sized UHF HT - Covers 420-450 MHz; 500mW power output or 1W by using optional NiMH or external DC supply. 100 memories; One call channel and several scan modes; 38 CTCSS encode/decode tones and 4 European tone bursts; Large, easy-to-read, illuminated display; External device control feature; Comes with AA battery case, belt clip, wrist strap and flexible SMA antenna.

Dim: 2.2" w x 4.0" h x 1.2" d; 3.6 oz ..... **\$89.99**

### Available Accessories

EBP52N 3.6V 500mAh NiMH battery, EBP53N 6V 500mAh NiMH battery, EBP54N 3.6V 1500mAh NiMH battery, EDC105 Drop-in NiMH charger without power supply, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDC93 Wall power supply for EDC105, EDH31 Dry cell battery case, EME12 Headset/earphone/mic w/VOX, EME13 Headset/ear bud/mic w/VOX, EME15 Earphone/mic w/VOX, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker mic w/volume control, EMS8Z Remote speaker mic, ESC37 Soft case



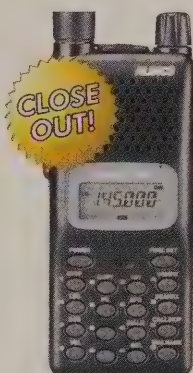
**DJ-45T** 440MHz FM HT Rugged polycarbonate design is resistant to rain, dirt and dust. TX: 420-450 MHz; RX: 420-474 MHz. 100 memories and three types of Scan functions (VFO, Memory, Tone) with timed and busy settings. Three different Tone Burst tones. Thirty-nine separately selectable CTCSS encode and decode tones, Tone Call and Bell (pager). Power Output: 2W with 6.0V external DC power source, approx. 1W with special order EBP-60 Li-Ion pack, approx. 0.5W with 2 Alkaline AA cells and approx. 0.4W with 2 Ni-MH rechargeable AA cells. The low power TX position gives approx. 0.5W at 6.0Vdc and approx. 150mW at 2 AA Ni-MH cells. Back-lit, Easy-to-Read LCD display. Computer-programmable with free software downloadable from Alinco website (with optional ERW-4 or ERW-7 cable). Includes belt clip, hand-strap, AA battery case and flexible SMA antenna.

Dim: 2.24" w x 3.86" h x 1.17" d; 5.7 oz. .... **\$119.99**

### Available Accessories

EME6 Earphone, ERW4 PC Cable, ERW7 USB PC cable, ESC40 Soft case

## SINGLE & DUAL BAND HANDHELDS



DJ-196T



DJ-596T MK II

**DJ-196T** 2 Meter FM HT Covers 144-148 MHz transmit and 130-174 MHz receive. 5W output; 40 multi-function memory channels; MARS/ CAP capability; Alphanumeric display; CTCSS encode and decode and DCS; S-meter; Autodialer; Computer programmable, Cable cloning capability; Back lit keypad. Dim: 4.9" h x 2.2" w x 1.6" d; 13.2 oz. .... **Closeout \$119.99**

**DJ-296T** 220 HT - Same as above except has a range of 222-225 MHz. .... **Closeout \$149.99**

**DJ-496T** 440 HT - Same as above except has a range of 430-450 MHz ..... **\$149.99**

**DJ-596T MK II** 2M/440 MHz Dual Band HT - Covers 144-148/420-450MHz transmit and 136-174/400-512 MHz receive. 5W output on both bands with standard NiMH battery; Wide or narrow FM; Digital voice optional; CTCSS/DCS encode and decode; Three scan modes; Illuminated keys and display; 100 alphanumeric memories and 9 autodial memories; Operates on 6-16VDC, battery charges while on external source. .... **\$209.99**

### Available Accessories

EBP50N 9.6V 700mA 5W NiMH battery, EBP51N 9.6V 1500mA 5W NiMH battery, EBP56N 7.4V 1000mAh lith-ion battery, EDC111 Charger for EBP56N, EDC133 NiMH quick charger, EDC16B Cigarette lighter cable and filter, EDC36 Angle plug power cable with filter, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDC88 Rapid charger, EDC93 Wall charger with power supply, EDC97 NiMH quick charger, EDH30 Dry cell battery case, EJ47U Digital board (DJ-596TMKII only), EME12 Headset/earphone/mic with VOX, EME13 Headset/earbud/mic with VOX, EME15 Earphone/mic with VOX, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker mic with volume control, ERW4 PC cable, ERW7 USB PC cable, ESC36 Soft case for EBP48N, SW596 Windows programming software (DJ-596TMKII only)

## LOW POWER 2M HANDHELD



**DJ-S11T** Miniature VHF HT Covers 144-148 MHz transmit; 340mW output; 20 multi-function regular memories and 1 call memory; Tone encoder and decoder; Illuminated display; Pivoting antenna. Uses 3 "AA" alkaline or NiCad batteries; Comes with wrist strap, antenna and belt clip. Dim: 3.9" h x 2.2" w x 1" d; 6.5 oz. .... **\$79.99**

### Available Accessories

EDC78 Wall charger (not alkaline), EDH18 12V/5.5V DC cigarette lighter plug, EME12 Headset/earphone/mic w/VOX, EME13 Headset/earbud/mic w/VOX, EME15 Earphone/mic w/VOX, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker mic w/volume control, ESC27 Soft case

## DUAL BAND HANDHELDS



**DJ-C7T** Credit Card Size VHF/UHF Dual Band Micro Handheld - TX/RX: 144-147.995, 430-449.995 MHz. RX: FM broadcast (87.5-107.995 MHz), AM aircraft (108-173.995) and 380-511.995 MHz. AM/FM/WFM modes. Power: 300mW with supplied 3.7V Lithium-ion battery or 500mW with external 6V power source.

200 memory channels; 5 pairs of program scan band; Priority watch; 3 types of scan including CTCSS tone search; Split-operation; CTCSS encode and decode; TSQ and 4 European burst tones standard; Internal speaker, SMA antenna port; Mic/earphone/DC jacks; Cable cloning; Battery saver.

Dim: 2.3" w x 3.8" h x 0.57" d; 3.6 oz. .... **\$169.99**

### Available Accessories

EBP58N Lithium-ion battery, EDH32 Cigarette lighter cable, EME18 Earphone, EME24 Earphone/microphone, EME25 Curl cord earphone, EMS60 Speaker/microphone, ERW4 PC cable, ERW7 USB PC cable, ESC38 Soft case



**DJ-V5TH** VHF/UHF Dual Band FM HT - Full 2 meter and 440 Amateur band coverage. Standard high-power 700 mAh NiCad battery pack - up to 5W output; 3 output settings; Expandable receive range 76-999 MHz (cellular blocked); Split-band operation capability; Eight different tuning steps; Alphanumeric display - up to 6 characters; 200 memory channels plus two call channels; CTCSS encode and decode; DTMF squelch; 4 different European tone bursts; 4 scan modes and 5 programmable scan banks; Auto-dial memories; SMA connector; Wire cloning capable; Accepts up to 13.8V DC input.

Dim: 4.5" h x 2.25" w x 1.75" d; 13 oz. .... **\$209.99**

### Available Accessories

EBP46N 9.6V 600mAh 5W NiCad battery, EDC16B Cigarette light cable with filter, EDC36 Angle plug power cable with filter, EDC37 13.8V power cable, EDC43 Cigarette lighter cable, EDH29 Dry cell battery case, EME12 Headset/earphone/microphone with VOX, EME13 Headset/ear bud/microphone with VOX, EME15 Earphone/microphone with VOX, EME20 Tie-pin mic/earphone, EME6 Earphone, EMS47 Speaker mic with volume control, EMS8Z Remote speaker mic, ESC35 Soft case for EBP45N/46N



# ICOM® HF BASE STATION



**IC-718 HF All Band Transceiver** – Perfect for beginners or backup rig. Covers 160–10M with 0.03–30 MHz RX in SSB, CW, RTTY and AM modes. 100W (40W AM); 101 memories; Multiple scan functions; Front mounted speaker; IF shift; Mic compressor; RF gain control; Noise blanker; RF attenuator and preamp; Auto notch; Electronic keyer; VOX; Digital S/R meter; High frequency stability; Flexible filter selection; Hand mic. included; 13.8VDC @ 20A.

Dim: 9.4" w x 3.75" h x 9.4" d; 8.5 lb..... **\$549.99**

## Available Accessories

BET 706TUNECONT Better RF tune control IC706/718, AH2B Whip with mount, AH4 80-6M 120W auto wire antenna tuner, AT180 HF+6M auto coax antenna tuner, CR338 High stability crystal, CT17 Level converter, FL222 1.9 kHz 455 kHz IF SSB filter, FL257 3.3 kHz 455 kHz IF SSB filter, FL52A 500 Hz 455 kHz IF CW filter, FL53A 250 Hz 455 kHz IF CW filter, MB23 Carrying handle, MB5 Mobile mount, OPC025D DC cable, OPC598 23' extension cable (AT180), OPC599 7+8-pin-13-pin adapter, PS125 25A switching supply, SM20 Stand mic for base station, SP10 Slim-line external speaker, SP20 Speaker with audio filters, SP23 Speaker with audio filters, UT102 Voice synthesizer, UT106 DSP unit, W4R OBF703718DIY CW & SSB Collins Filters

## HF/6M/2M BASE STATION



**IC-746PRO HF/VHF All Mode Transceiver** Covers 160–10M + 6M + 2M with 0.03–60 MHz, and 108–174 MHz RX. 100W output all bands; 32-bit floating DSP and 24-bit AD/DA converter; AGC loop management; IF filter width and shape variable; All mode signal modulation/demodulation; RTTY demodulator and decoder; Digital twin PBT capability; 100 memories (10 "memo pad"); PSK-31; Built-in HF-6M automatic antenna tuner; Two antenna connectors for HF/6M; IF-DSP noise reduction, auto notch and selectable audio peak filters; Noise blanker; Spectrum scope; Twin passband tuning; Triple band stacking register; Two-step preamp; RF speech compressor; Tone squelch/scan; VOX; SmartTune™ variable speed tuning; Auto repeater off-set; CW pitch control; QSO serial number generator; Transmit audio monitor; Up/down frequency mic; Requires 13.8V DC @ 20A. Dim: 11.3" w x 4.7" h x 12.5" d; 19.6 lbs..... **Free PS-125 @ \$1499.99**

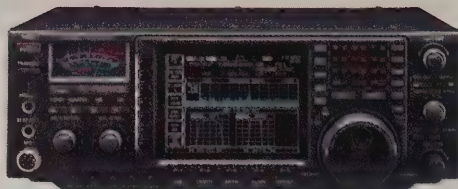
## Available Accessories

BET IMATE Better RF accessory, AH2B Whip with mount, AH4 80-6M 120W auto wire antenna tuner, CR338 High stability crystal unit, CT17 Level converter, HM36 Scanning hand mic, OPC025D DC cable, PS125 25A switching power supply, SM20 Stand mic for base station, SP20 Speaker with audio filters, SP23 Speaker with audio filters, UT102 Voice synthesizer

® Price after mail in rebate (USA only)

© Price after instant coupon; rebates, coupons and freebies may expire 12/31/07. Please call/web for current price & promotions.

## HF/6M BASE STATION



**IC-756PRO III HF/50 MHz All Mode Transceiver** Retains many of the popular PROII features, including: 32 bit floating DSP with 24-bit AD/DA converter; 51 types of settable pass bandwidths; Soft and sharp filter shapes to suit operation or band condition; RTTY demodulator/decoder; AGC loop management; Real time spectrum scope, and 5 in. color TFT display. New features and performance improvements include: Improved 3rd order intercept point of +30dBm; 5 MHz band standard (USA version); Same "Mini-scope" function adopted from the IC-7800; SSB transmit bandwidth which can be adjusted for both high and low band; Improved BPF and 1st filter reduces distortion; Pre-amp changed to a noiseless feedback type to reduce 2nd order distortion; Saturation characteristics of mixer and surrounding circuits improved; Clock function displaying local time, UTC time, etc.; Screensaver. Dim: 13.3" w x 4.3" h x 11.2" d; 21 lbs **\$2699.99**

## Available Accessories

BET IMATE Better RF accessory, AH2B Whip with mount, AH4 80-6M 120W auto wire antenna tuner, CT17 Level converter, HM36 Scanning hand mic, OPC025D DC cable, PS125 25A switching power supply, SM20 Stand mic for base station, SP20 Speaker with audio filters, SP23 Speaker with audio filters, UT-102 Voice Synthesizer



**IC-7700 HF/6M Transceiver** – Self-contained, top-performance, closely related to the IC-7800. Designed to be the Ultimate Contest Transceiver, employing the latest technology for the competitive edge. Two independent IC-7800-type DSP units: one for the transmitter and receiver and one for the spectrum display. Uses a single HF receiver with I/Q second mixer, offering a +40dBm 3rd-order intercept point, ultra-wide dynamic range and selectable 15, 6 and 3 kHz roofing filters. Automatic tracking preselector, and relay-switched front end for strong-signal HF performance and out-of-band interference rejection. Push-pull MOSFET amplifiers work at 48VDC, providing 200W output at full duty cycle. Quiet, built-in switch-mode power supply. The 7 inch wide color TFT LCD, 800x480 pixel display shows a multi-function spectrum scope and a simulated analog multi-function meter. VGA socket for external video monitor. A built-in RTTY/PSK31 modem provides a complete digimode terminal, requiring only an external keyboard. Rear-panel I/O connections and CI-V allow use of a second Icom transceiver. Digital voice recorder. DSP noise blanker. USB memory drive socket. Dim: 16.7" w x 5.9" h x 17.1" d; 52.9 lbs..... **TBD**

## Available Accessories

CT17 Level converter, HM36 Scanning hand mic, SM20 Stand mic for base station, SP20 Speaker with audio filters, SP23 Speaker with audio filters

*This device has not been approved by the FCC. This device may not be sold or leased, or be offered for sale or lease, until approval of the FCC has been obtained.*

## HIGH-END HF/6M BASE STATION



**IC-7800 HF/50 MHz Transceiver** – The Icom flagship radio that is a fusion of 40 years of analog RF circuit development expertise, with cutting-edge digital technology. The result, astonishing 110dB dynamic range, +40dB 3rd order intercept point in HF, and other features like a double conversion superheterodyne system, mechanical relay BPF switching & three roofing filters. The ultimate in performance, function, and quality without compromise. 1.8 to 29.7 + 50 to 54 MHz TX, 0.03 to 60 MHz general RX; USB, LSB, CW, RTTY, PSK-31, AM, FM, SSB DATA modes; SSB/CW synchronous tuning; 101 memories (99 regular, 2 scan edges), 10-character comment; Ultra high stability oven control crystal oscillator; Main and SUB receiver, Dual watch; RIT and ATX; Separate 50 MHz preamp and mixer; 5-200W (5-50W AM) output; Built-in supply (85–265VAC) and high-speed HF/50 MHz automatic antenna tuner; Voice synthesizer (frequency, mode and signal strength); Four 32-bit, floating point, DSP units and 24-bit AD/DA converters; Digital RF speech compressor; Mic. equalizer; Triple band stacking register; Multiple scan functions; Digital twin passband tuning; 16-step variable DSP noise reduction; Variable noise blanker; 7" color TFT LCD (spectrum scope S-meter, and RTTY/PSK-31 decode messages); RTTY/PSK-31 without PC connection; Digital voice recorder (200 second RX memory, 99 second TX); CF memory card for setting storage; Multi-function, fully adjustable, electronic memory keyer (DSP waveform shaping) Double key jack system; Full break-in; 50 CTCSS tone encode/decode; UTC/local clock and timer function; Optical digital in/output; CI-V interface capability; BNC-type transverter connector; External CRT display connector; Four antenna connectors; Includes 64MB CF memory card, spare fuses, key and pin plugs, rack mount handles, AC cable, speaker plugs, ACC plugs, power plug. Dim: 16.6" w x 5.9" h x 17.1" d; 55 lbs. **\$10599.99**

## Available Accessories

BET IMATE Better RF message accessory, CT17 Level converter, HM36 Scanning hand mic, SM20 Stand mic for base station, SP20 Speaker with audio filters, SP23 Speaker with audio filters

## POPULAR ICOM ACCESSORIES



**SM-20 Electret Microphone** – Up-Down tuning; PTT switch with lock feature; Gain adjustment; Low Cut switch; ICOM 8-pin plug. Compatible with the IC-7800, IC-7700, IC-746, 746Pro, 756, 756Pro, 756Pro II & III, 775, 781, 820, 821 & 910H. Requires OPC-589 with IC-706 & IC-7000 **\$199.99**

**PS-23 Speaker w/Audio Filters** – Matches Icom receivers and transceivers. Dual switchable radio input jacks and four separate audio filters: HPF 1 (500 Hz), HPF 2 (250 Hz), LPF 1 (3000 Hz), LPF 2 (1000 Hz). Speaker on-off switch; 1/4 in. head-phone jack; Metal construction; Tilt-stand. Dim: 5.75" w x 4.25" h x 11.2" d; 3.6 lbs ... **\$199.99**

**PS-125 Base Station Power Supply** Provides full 25 Amps of power for Icom radios. Dim: 4.4" w x 3.7" h x 11.3" d; 6.6 lbs..... **\$299.99**



When you want more  
than just basic HF...

## IC-746PRO

This HF/6M/2M performer borrows much technology from its big brothers, the 756PRO series: Built-in 32-bit IF-DSP; 100 Watts on all bands, and 100% duty cycle; digital filtering (no need to buy optional filters!) with independently selectable tuning shapes for CW & SSB; menu-driven controls; auto and manual notch filter; built-in auto antenna tuner; band scope; and more.

- 100 Watt Output Power, Full Duty Cycle\*
- All Mode, Including RTTY
- 32-bit IF-DSP & 24-bit AD/DA Converter
- Enhanced Rx Performance
- Selectable IF Filter Shapes for SSB & CW



Make the jump and experience unlimited enjoyment!

\*Frequency specifications may vary. Refer to owner's manual for exact frequency specifications.

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ICOM



**HF/6M QRP  
RADIO**

**IC-703 PLUS** HF QRP Transceiver – For home, shack, mobile DX'ing and in the field. Covers 160-10M + 6M in SSB/CW/RTTY/AM/FM modes. Power: 10W @ 13.8VDC and 5W @ 9.6VDC. Similar to the IC-706 series, but HF + 6M without VHF/UHF. Built-in, relay-type automatic HF antenna tuner; 105 memories; Memory keyer; Large capacity external battery pack and antenna options.

Dim: 6.5" w x 2.2" h x 7.875" d; 4.4 lbs. **® \$679.99**

**Available Accessories**

AH2B Whip with mount, AH4 80-6M 120W auto wire antenna tuner, AH703 40/20/15/10/6 20W 4.6' antenna, BC155A Battery charger/BP228, BP228 9.6V 2800mAh external NiCad, CT17 Level converter, FL222 1.9kHz 455kHz IF SSB filter, FL257 3.3kHz 455kHz IF SSB filter, FL52A 500Hz 455kHz IF CW filter, FL53A 250Hz 455kHz IF CW filter, HM154T TTP mic, LC156 Back pack carrying case, MB62 Mounting bracket for main unit, MB63 Mounting bracket for control panel, MB65 Mtg base platform, MB72 Carrying handle, OPC1229 Extra DC cord, OPC1248 IC703 to PS125 cable, OPC581 11.5' separation cable, OPC587 16' separation cable, OPC589 8-pin mic jack adapter cable, OPC599 7+8-pin-13-pin adapter, OPC742 13-pin cable, RMK706 Remote mtg kit, SM20 Stand mic for base station, SP10 Slim-line ext. spkr, UT102 Voice synthesizer, W4R OBF073718DIY CW & SSB Collins Filters

**HF/VHF/UHF  
RADIO**

**IC-706 MK II-G** Compact HF/VHF/UHF All Mode – Covers 160–10M + 6M, 2M and 70cm; with broadband 0.03–200 MHz receive including AM/FM broadcast bands. 107 alphanumeric memories; Power: 100W (40W AM) on 160–6M, 50W (40W AM) on 2M, 20W (8W AM) on 70cm. RTTY; PSK31; Speech compressor; Detachable control panel; 2 filter slots; AF-DSP; Tone encode, tone scan and tone squelch; Cross band split; Noise blanker; IF shift; Preamp/attenuator; CW keyer and pitch control with reverse; Break-in; VOX; Bandscope; SWR graphic sweep; One-button duplex and automatic repeater offset; 13.8V DC @ 20A. Dim: 6.6" w x 2.3" h x 7.9" d; 5.5 lbs. **Free RMK-706 ® \$899.99**

**Available Accessories**

BET 706TUNECONT Better RF IC706 tune control, AH2B Whip with mount, AH4 80-6M 120W auto wire antenna tuner, AT180 HF+6M auto coax antenna tuner, CR282 Stability crystal, CT17 Level converter, FL100 500 Hz 9 MHz IF CW filter, FL101 250 Hz 9 MHz IF CW filter, FL103 2.8 kHz 9 MHz IF SSB filter, FL223 1.9 kHz 9 MHz IF SSB filter, FL232 350 Hz 9 MHz IF CW/RTTY filter, HM154T TTP microphone, LC156 Back pack carrying case, MB62 Mounting bracket for main unit, MB63 Mounting bracket for control panel, MB65 Mounting base platform, MB72 Carrying handle, OPC025D DC cord, OPC581 11.5' separation cable, OPC587 16' separation cable, OPC589 8-pin mic jack adapter cable, OPC598 23' extension cable for AT180, OPC599 7+8-pin-13-pin adapter, OPC742 13-pin cable, PS125 25A switching power supply, RMK706 Remote mounting kit, SM20 Stand mic for base station, SP10 Slim-line external speaker, UT102 Voice synthesizer, W4R ANTBOSSII W4RT Interface, W4R OBPUNIV Speech compressor

**HF/VHF/UHF  
RADIO**

**IC-7000** All band Multimode Mobile Transceiver Covers HF/6M/2M/440 MHz with .03-199 MHz RX; 503 alpha memories; Power: 100W (HF+6M), 50W (2M), 35W (440 MHz). 41 bandwidths standard with sharp or soft filter shape. The variable twin PBT allows you to narrow the IF passband, or shift the entire passband to eliminate QRM. 2.5 inch (diagonal) color TFT screen. Supports a two-mode band scope; An internal memory keyer provides four memories; Detachable control head (requires optional separation cable); 503 memories; Digital RF Speech Processor; S/PWR/SWR meter; RIT; Preamp and Attenuator; RTTY Demodulator; Adjustable SSB bandwidth; DTMF memory; VOX, Full break-in CW with adjustable pitch. Comes with backlit remote mic, spare fuses, key plug and DC power cable. 13.8VDC @ 22A. Dim: 6.56" w x 2.59" h x 7.09" d; 5.1b ..... **Free RMK-7000 ® \$1299.99**

**Available Accessories:**

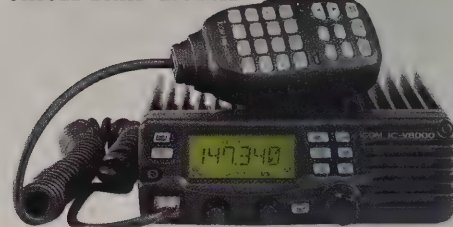
BET 7000TUNECONT Better RF IC7000 tune control, AH2B 40-6M whip with mount (use tuner), AH4 80-6M 120W auto wire antenna tuner, AT180 HF-6M auto coax antenna tuner, CT17 Level converter, HM154T TTP Mic., LC156 Back pack carrying case, MB105 Remote head bracket, MB106 Carry handle, MB62 Main unit mounting bracket, MB65 Mounting base, OPC1443 11.5' remote cable, OPC1444 16' remote cable, OPC1457 DC cable, OPC589 8-pin microphone jack adapter cable, OPC598 23' extension cable; AT180, OPC599, 7+8-pin to 13-pin adapter, OPC742 13-Pin cable, RMK7000 Remote mounting package (MB62/MB105/OPC1443), SM20 Stand mic. for base stations (OPC-589 required), SP10 Slim-line external speaker, W4R ANTBOSSII W4RT Interface

**VHF/UHF DUAL BAND BASE STATION**

**IC-910H** VHF/UHF All-Mode – With the optional 1200 MHz module installed, it becomes an SSB/CW/FM tribander. Covers 144-148, 430-450 and 1240-1300 MHz (optional). Output: 5-100W (2M), 5-75W (440 MHz), 10W (1.2 GHz optional); Memories: 99 regular, 1 Call, 6 Scan edges (per band) and 10 Satellite; Large 3.5 in. multi-function LCD display, 10-key direct frequency entry keypad; Satellite mode support; Simultaneously works 2 bands in receive and full duplex; CW full support; Versatile scanning functions; Memory pad; 50 tone CTCSS encode; Speech compressor; One-touch & Auto repeater offset; IF shift; VOX; 13.8V DC @ 23A. Dim: 9.5" w x 3.6" h x 9.4" d; 10 lbs..... **\$1279.99**

**Available Accessories**

AG25 2M mast mount preamp, AG35 430 mast mount preamp, CR293 High stability crystal unit, CT17 Level converter, FL132 500 Hz main receiver CW filter, FL133 500 Hz sub-band receiver CW filter, MB23 Carrying handle, MB5 Mobile mount, PS125 25A switching power supply, SM20 Stand mic for base stations, SP10 Slim-line external speaker, UT102 Voice synth., UT106 DSP unit, UX910 10W 1.2 GHz module

**SINGLE BAND MOBILE**

**IC-V8000** 2M FM Transceiver – Big 75W power output. Covers 144–148 transmit with 136-174 MHz receive. 207 alphanumeric memory channels; including one call and six scan edge channels; Each memory channel stores a six character name, tone frequency, skip info, and more; Weather alert and weather channel scan; DMS scan system; Priority watch; CTCSS/DTCS; Dynamic Memory Scan (customize/manage memory banks); DTMF encode and pager function capability; 10 DTMF memory channels stores DTMF codes with up to 24 digits; Versatile cloning from transceiver to transceiver or PC to transceiver; Front mounted speaker; One-piece, die-cast, rugged, aluminum chassis; Large cooling fan on the back and large cooling fins; Selectable Green or Amber display; Includes HM-133V remote control microphone. Dim: 5.9" w x 2" h x 5.9" d; 2.22 lbs ..... **® \$179.99**

**Available Accessories:**

CSV8000 Windows software, OPC1132 9.8' DC cable, OPC347 23' DC cable, OPC440 16.4' mic extension cable, OPC441 16.4' Speaker Extension Cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, SP10 Slim-line external speaker, UT108 DTMF decoder unit, V8000MMB Mobile bracket

**DUAL BAND MOBILE**

**IC-208H** 2M/440 Dualband Mobile – Covers 144-148 and 430-450 TX with 118-173, 230-549, 810-999 MHz (cell blocked) wide band RX. Power: 55/50W (2M/440); Weather channel and alert; 500 6-character alpha memory channels; Improved Dynamic Memory Scan (10 banks), 2-100 channels per bank; New bank listing allows selection of banks you want to scan; Built-in CTCSS/DTCS tone squelch; Operate with control head attached or remote mounted with included 11.5 ft. separation cable; Pocket beep and tone scan; 16 DTMF memories; 9600bps data connector; Auto repeater function; Multicolor display lighting and backlit buttons; Remote control mic. included. Dim: 5.56" w x 1.56" h x 7.31" d; 2.65 lbs ..... **® ® \$254.99**

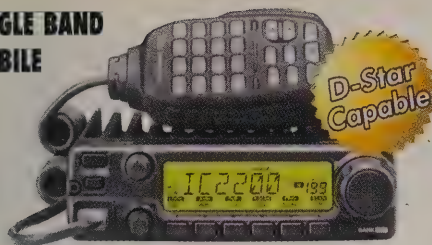
**Available Accessories:**

CS208 Windows cloning software, MB17A Quick release bracket, MB58 Remote controller bracket, MB65 Mounting base platform, OPC1132 9.8' DC cable, OPC347 23' DC power cable, OPC440 16.4' mic extension cable, OPC441 16.4' Speaker Extension Cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, OPC601R 23' separation kit, SP10 Slim-line external speaker

® Price after mail in rebate (USA only)  
© Price after instant coupon; rebates, coupons and freebies may expire 12/31/07. Please call/web for current price & promotions.



## SINGLE BAND MOBILE



D-Star Capable

**IC-2200H** 2M FM Transceiver – A rugged design with a large selectable Amber or Green LCD display with four levels of brightness, backlit keys and large oversized tuning dial. Covers: 144-148 MHz transmit with 118-174 MHz receive (includes AM aircraft band and Weather channel with Alert). Improved receive IMD helps provide protection from excessively strong signals such as pagers. Power levels: 65, 25, 10 or 5W; Choice of FM/Narrow mode; 207 alphanumeric memories (six scan edges, one CALL channel); Dynamic Memory Scan; 50 CTCSS and 104 x 2 DTCSS encode/decode plus tone scan functions and “pocket beep”; Three-way Priority watch; 24 DTMF autopilot memories; Squelch delay; GPS, NMEA compatible (GPS not supplied). Includes remote control microphone, DC power cable, mobile mounting bracket and microphone hanger. Dim: 5.5”w x 1.56”h x 5.25”d; 2.75 lbs **\$139.99**

### Available Accessories:

CS2200H Windows™ software, MB17A Quick release bracket, OPC1132 9.8' DC cable, OPC347 23' DC power cable, OPC440 16.4' mic extension cable, OPC441 16.4' Speaker Ext. Cable, OPC474 Radio-to-radio cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC589 8-pin mic jack adapter cable, SP10 Slim-line external speaker, UT108 DTMF decoder unit, UT118 Digital board



D-Star Capable

**IC-2820H** 2M/440 Analog Dual Bander with Digital and GPS Capability – Covers 144-148 and 430-450 MHz with wideband receive (Left Band) 118-549.95 / (Right Band) 118-173.995, 375-549.995 and 810-990.990 MHz (cellular blocked). V/V and U/U simultaneous receive, 522 memory channels. Weather Alert. Power: 50/15/5W out on both bands. Removable front panel, built-in CTCSS Encode/Decode, selectable amber/green display, PC compatibility. Two antenna jacks support diversity reception in the 127, 136, 146, 375, 440 and 500 MHz bands (two antennas required). Diversity compares signal strength from the two antennas, and automatically selects the strongest signal to hear. D-STAR upgradable and DV (digital voice) with the optional UT-123. Packet ready (9600 BPS – 6-pin DIN). Includes the full-function backlit HM-133 remote DTMF hand microphone, mounting bracket, power cord and spare fuses. Supplied with OPC-1663 and OPC-1712 separation cables. Dim: 5.9”w x 1.65”h x 7.4”d, 3.3 lbs. **\$649.99**

### Available Accessories

CS2820 Windows cloning software, MB65 Mounting base, OPC1132 9.8' DC cable, OPC1529R Data communications cable, OPC347 23' DC cable, OPC440 16.4' Microphone extension cable, OPC441 16.4' Speaker extension cable, OPC474 Radio to radio clone cable, OPC478 PC RS-232 cable, OPC478U PC USB cable, OPC589 8-PIN microphone jack adapter cable, SP10 Slim-line external speaker, UT123 DV mode and GPS receiver

## ICOM D-Star Digital Voice & Data

### D-STAR EQUIPPED MOBILES

### ANALOG/DIGITAL DUAL BAND MOBILE



**ID-800** 2M/440 Dual Bander Analog & Digital Features D-STAR Digital Voice Capability and supports 20 character short text messaging with an on screen display. Detachable control head; wideband receive; Three power settings: 55/15/5W (2 meters), 50/15/5W (440 MHz); Built-in CTCSS decode/encode with tone scan; PC compatible, 9600 BPS packet ready; 500 alphanumeric memories (6 characters), 16 DTMF memories.

Includes: Built-in duplexer; Separation cable; Remote hand microphone; Mobile mounting bracket, power cord & spare fuses. **\$559.99**

### Available Accessories:

CS800 Cloning software, MB17A Quick release bracket, OPC1132 9.8' DC cable, OPC1384 RS232C data cable, OPC347 23' DC cable, OPC440 16.4' mic. extension cable, OPC441 16.4' speaker extension cable, OPC478 PC RS232C cable, OPC478U PC USB cable, OPC601R 23' separation cable, SP10 Slim-line external speaker

### 1.2 GHZ D-STAR RADIO



**ID-1** 10W 1.2 GHz FM Digital Transceiver with Control Head – Operates with D-Star 1.2 GHz repeaters, plus simplex digital operation with another ID-1. Its operating frequency range is 1240-1300 MHz with FM and GMSK (digital) modulation formats. Includes alphanumeric memories, CTCSS encode/decode and scanning, Full PC control via USB port and supports 10 BASE-T ethernet for 128K data operation. **\$979.99**

### Available Accessories

MB17A Quick release bracket, OPC1132 9.8' DC cable, OPC347 23' DC cable, OPC440 16.4' mic. extension cable, SP10 Slim-line external speaker

Ⓜ Price after mail in rebate (USA only)  
Ⓢ Price after instant coupon; rebates and coupons may expire 12/31/07. Please call/web for current price and promotions.

## SINGLE BAND HT



D-Star Capable

**IC-V82** 2M High Power Digital Capable Handheld 7W output @ 7.2V DC; 6.0 - 10.3V DC input; 136-174 MHz RX; Optional UT-118 unit provides D-STAR format digital voice and slow data comm. Built in CTCSS/DTCS; Auto low power/power saver (30mA drain); 200 memories (10 memory banks); Auto repeater function; Backlit display; PC cloning capability; NOAA weather channel RX (IC-V82 USA ver. only); 16 DTMF dial memory, Die cast aluminum frame and heat sink; 7.2V battery included.

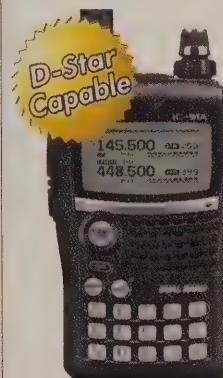
Dim: 2.1”w x 5.5”h x 1.4”d; 13.8 oz. **\$119.99**

**IC-U82** – Same as IC-V82, but TX: 420-450 MHz, RX: 400-479 MHz; 5W **\$119.99**

### Available Accessories

AD101 Battery adapter for BP211 and BC119N01, AD9411 Adapter cup for BC119N01, BC119N01 Desk charger, BC144N Rapid desk charger, BP208N Battery case, BP209N 7.2V 1100mAh 5.5W battery, BP210N 7.2V 1650mAh 5.5W battery, BP211N 7.4V 1800mAh lith-ion battery, BP222N 7.2V 600mAh 5.5W battery, CSV82 cloning software, HM128L Rectangle plug earphone + mic, HM158L Rectangle speaker/mic/ear-jack/clip, HM46 Slim-line speaker, HM54 Heavy duty speaker, HM75A Remote control mic, HS85 Headset w/VOX, HS94 Earhook headset w/boom mic, MB103 Spring belt clip, MB86 Swivel belt clip, OPC474 Cloning cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, SP13 earphone, UT108 DTMF decoder unit, UT118 D-Star Digital unit, VS1L PTT/VOX unit

## DUAL BAND HT



D-Star Capable

**IC-91A** Digital Capable Dual Band HT – Transmits on 2 meters and 440 MHz. The “A” band (top) offers wide reception from 495 kHz to 999.990 MHz (excluding cellular) in FM/WFM/AM modes. The “B” band (bottom) receives from 118.000 to 174.000 MHz and 350.000 to 470.000 MHz in FM/FM-N/AM/DV modes.

Simultaneous receive of a combination of the “A” and “B” bands allows V/V, V/U and U/U operation. Tuning steps include: 5, 6.25, 8.33 (only in air band), 9 (AM broadcast), 10, 12.5, 15, 20, 25, 30, 50, 100, 125 and 200 kHz. Alpha memories: 1304. Power: 5/0.5W on either band. Analog/Digital upgradable with optional UT-121 Digital Voice Unit. In DV mode, you can record 30 sec. of audio into memory Plays a recorded message (up to 10 sec.) in response to a call directed to the user's callsign. Audio messages can even be forwarded. With an external NMEA 0183 format GPS attached (not supplied), your own and others' position information can be sent and received. JIS-4 specification for weather resistance. Includes SMA-type antenna, Li-Ion battery, belt clip & charger.

Dim: 2.4”w x 4.2”h x 1.5”d; 10.6 oz. **\$329.99**

**IC-91AD** Digital Ready Dual Band HT – The IC-91A with UT-121 DV Unit installed **\$449.99**

### Available Accessories

AD92SMA SMA - BNC adapter, BC139 Desk rapid charger, BP216 AA battery case, BP217 7.4V 1300mAh lith-ion, CP19R Cigarette cable with filter, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, HM75A Remote control mic, HS85 Headset with VOX, LC163 Carrying case, OPC474 Radio-to-radio clone cable, OPC782 Plug adapter cable, RS91 Remote control PC software (RS-232 cable), SP13 Earphone, UT121 Digital D-Star board (IC-91A only)



# 128kbps High Speed Wireless Data via D-STAR

## – What Does it Mean?

### Damage Assessment

With 128kbps data, see what your in-the-field staff sees during wind-shield surveys. It's a useful tool to provide real-time, on-scene visuals.

### Wide Area Networking

Compliments existing emergency management networks; covers miles, not meters. Embedded position information links digital maps, charts, and more.

### Shelter Management

New tool, enables shelters to share vital information digitally:

- Inventory, such as medical
- supplies, fuel supplies, food
- and water availability, bed-
- counts etc.
- Logistics and coordination
- Staff and schedule

Determine if shelters are filled or empty, in need of supplies or can spare them. Personal information is not transmitted in the clear, satisfying HIPAA standards.

### Field Digital Data

Link field, shelter, and EOC staff with digital data.

- Keyboard to keyboard chat
- E-mail in the field
- Site-to-site digital comm
- HIPAA compatible



### Visual Asset Tracking

D-STAR integrates GPS information automatically with tactical communications. Position is included with every voice transmission. On a computer running Automatic Position Reporting System (APRS) software that provides real-time map plots of where your resources are deployed. Allocate efficiently, at-a-glance! Send pre-programmed status reports from a PDA without saying a word.

### D-STAR Bridges the GAP

D-STAR and amateur radio provide the crucial first- and last-mile communications to enable effective emergency response.



## What is D-STAR?

### D-STAR: an open protocol

D-STAR is an acronym for Digital Smart Technology for Amateur (Ham) Radio. The D-STAR technology is an open protocol designed in Japan. The English version of the protocol is published on the ARRL website ([www.ARRL.org](http://www.ARRL.org)). D-STAR is quickly growing in popularity with U.S. ham operators.

### Amateur Radio

While D-STAR's sole application is Amateur Radio, recent events have made Amateur Radio a primary focus for disaster relief communications by the International Telecommunications Union, or ITU. In its latest update, February 2, 2006, the ITU created recommendation ITU-D13, encouraging international government administrations "to take the necessary steps to allow amateur stations to prepare for and meet communication needs in support of disaster relief."

128k D-STAR is available on select Icom equipment. Backbone D-STAR repeaters are already in place in numerous states throughout the U.S. More and more are coming online!



# Icom's D-STAR Repeaters and Mobiles



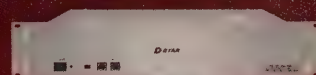
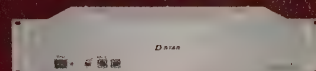
## ID-RP2C REPEATER CONTROLLER

The cornerstone of the D-STAR system. Handles up to four RF modules. Basic in-band or cross-band operation. Linking capabilities through the internet and future 10GHz backbone products.



## ID-RP2D 1.2GHZ DATA MODULE

Access point with a data rate of up to 128kbps. Depending on the system setup, set up an email and/or file server for EmComm support. Perfect for web applications or support via internet connection.



## ID-RP2V 1.2GHZ DIGITAL VOICE MODULE

## ID-RP2000V 2M DIGITAL VOICE MODULE

## ID-RP4000V 70CM DIGITAL VOICE MODULE

Finally, commercially available crossband systems! Together, with proper call sign programming in any D-STAR compatible mobile or portable, the Icom D-STAR system will automatically route your signal to any other RF module connected to a common RP2C. With simple system commands, you can direct your communications through any of the RF modules or across the world via the gateway.



## NI-W IC-2820H D-STAR UPGRADEABLE

50/15/5W RF Output Levels  
• Right Band RX: 118-173.99, 375-549.99, 810-999.99MHz\*;  
Left Band RX: 118-549.99MHz\*  
• Analog/Digital Voice with GPS (Optional UT-123) • 500 Alpha-numeric Memories • Diversity Receive Capable

## DIGITAL

## UT-123 GPS MODULE AND ANTENNA



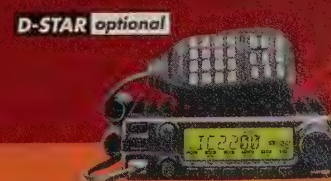
## ID-1 GO DIGITAL ON 1.2GHz

10 Watt I High Speed Digital Data, Digital Voice, Analog Voice (FM) I Wireless Internet/Network Capable I PC Control via USB port I Digital Callsign & Digital Code Squelch



## ID-800H GO DIGITAL ON 2m & 70cm

55 Watt VHF/50 Watt UHF Wide RX: 118-173, 230-549, 810-999 MHz\* I Analog/Digital Voice & Data I Callsign Squelch CTCSS & DTCS Encode/Decode w/Tone Scan



## IC-2200H DIGITAL UPGRADEABLE FOR 2m

65 Watt I 207 Alphanumeric Memories I Digital Voice & Data w/Optional UT-118 I Optional Callsign Squelch I CTCSS & DTCS Encode/Decode w/Tone Scan I Weather Alert



## SINGLE BAND HTS



**IC-V8 SPORT** 2M FM HT - None easier to use! Covers 144-148 MHz; 5.5W output; 100 easy to recall alphanumeric memories; Scans 40 channels per second; Personalized scanning ranges; Up/Down & Rotary controls; CTCSS/DTCS encode/decode; Tone scan; PC programmable to set-up parameters; Acoustical design for best audio; Full-sized input keypad; Durable polycarbonate front panel and aluminum die-cast chassis built to MIL specs. Comes with AA battery case.

Dim: 2.13"w x 5.2"h x 1.4"d; 12.3 oz. .... **\$99.99**

### Available Accessories

AD101 Battery adapter for BP211 and BC119N01, AD9411 Adapter cup for BC119N01, BC119N01 Desk charger, BC144N Rapid Desk Charger, BP208N Battery case, BP209N 7.2V 1100mAh 5.5W battery, BP210N 7.2V 1650mAh 5.5W battery, BP211N 7.4V 1800mAh Li-ion battery, BP222N 7.2V 600mAh 5.5W battery, CP17L Right angle cigarette cable for charger, CSV8 Cloning software, HM128L Earphone + mic, HM158L Rectangle speaker/mic/earphone jack/clip, HM46L Slim-line speaker mic with right angle plug, HM54 Heavy-duty speaker mic, HM75A Remote control mic, HS51 Headset/VOX, HS94 Earpiece headset, LCF3GSWIVEL Leather case with swivel, MB103 Spring loaded belt clip for N-Series battery, MB74N Spring loaded belt clip, MB86 Swivel belt clip, MB87 Swivel belt clip, OPC474 Radio-to-radio clone cable, OPC478 PC RS-232C cable, OPC478U PC USB cable, OPC515L Right angle DC cable for charger, SP13 Earphone, UT108 DTMF decode unit, VS1L Right angle VOX-PTT unit for HS94



**IC-V85** 2-meter Handheld Covers 144-148 MHz with extended receive 136 to 174 MHz and up to 7W output. 107 memory channels including 6 scan edge and 1 CALL. Multiple scanning modes, 16 DTMF memory channels. Built-in CTCSS/DTCS Encode and Decode. Weather channel alert, backlit alphanumeric display, repeater lock-out, auto-repeater function, time-out timer and auto-power off. Easy-to-use ergonomic controls. Pager/DTMF decode function available with optional UT-108.

Dim: 2.2"w x 4.34"d x 1.35"d; 12.5 oz.... **\$199.99**

### Available Accessories

BP226 Battery case, BP227 7.2V 1700mAh lith-ion battery, CP19R Cigarette cable w/filter, CSV85 Cloning software, HM128L Right angle earphone + mic, HM158L Right angle speaker/mic/earphone/clip, HM75A Remote control mic, HS85 Headset w/VOX, HS94 Ear-piece headset, LC167 Carrying case, OPC474 Radio-to-radio clone cable, OPC478U PC USB cable, SP13 Earphone, UT108 DTMF decoder unit, VS1L Right angle VOX-PTT unit

® Price after mail in rebate (USA only); rebates may expire 12/31/07. Please call/web for current price and promotions.

## ICOM



Dim: 2.3"w x 4.8"h x 1.1"d; 14.3 oz. .... **\$169.99**

### Available Accessories

AD56 Battery pack adapter for rapid charger, BC110A wall charger, BC119N11 NiCad/NiMH desk charger, BP170 Battery case, BP172 4.8V 950mAh battery, BP173 9.6V 600mAh battery, BP180 7.2V 600mAh battery, CP12 Cigarette cable with filter, CP12L Right angle cigarette cable with filter, CSWHH4 Windows software with cable, FA1443B 2M/440 duck, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, HM46 Slim-line speaker mic, HM54 Heavy-duty spkr mic, HM75A Remote control mic, HS10 Boom mic/headset, HS10SA VOX unit, HS85 Headset with VOX, HS94 Earpiece headset, LC137 Case for T7H with BP173/180, NCPI Nylon chest pack, OPC254L Right angle mini DC power cable, OPC474 radio clone cable, OPC478 PC RS232C cable, SP13 Earphone, VS1 VOX-PTT unit for HS94



**IC-P7A** Dual band HT - Covers 2M and 440 MHz FM. Power Output: 1.5W (2M) & 1.0W (440 MHz). Wideband receive from 495 kHz to 999.99 MHz (less cellular) in AM, FM and FM-W modes. Includes AM/FM/SW broadcasts and Weather Channels with Alert. Memories: 1,000 regular channels, 50 band scan edges and 200 auto memory write channels. The regular mem-

ory channels can be grouped into 18 banks of 100 channels. Alphanumerics allow naming channels and banks with 6-digit letters and numbers and can display the channel and bank names for easy recognition. Multiple scanning types, CTCSS and DTCS tones for repeater operation, or tone squelch operation and pocket beep for quiet stand-by. Ergonomically designed and features the minimum number of buttons to provide quick and easy operation. Includes flexible SMA antenna, wrist strap, Li-ion battery pack, rapid 3-hour battery charger and AC adapter.

Dim: 1.85"w x 3.1"h x 1.1"d; 5.64 oz. .. **\$229.99**

### Available Accessories

AD92SMA SMA - BNC adapter, BP243 3.7V 1800mAh Lith-ion Battery pack, CP211R Cigarette cable with filter, CSP7 Windows cloning software, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, LC161 Carrying case, OPC474 Radio-to-radio clone cable, OPC478 PC RS232 serial cable, OPC478U PC USB serial cable, OPC782 Plug adapter cable, SP13 Earphone

## DUAL BAND HTS

**IC-T7H SPORT** 2M/440 MHz FM Dual Band HT Comes with AA battery case that gives it 2W output. Up to 5W with optional 9.6V/650mAh battery or 6W with optional 13.5V DC power cable; TX: 144-148 MHz & 440-450 MHz; RX: 118-174 MHz & 400-470 MHz; One-touch band switching; Priority watch; 70 memories with 9 DTMF for auto dialing; CTCSS tone encode & decode; 50 independently programmable tone frequencies; Auto power save; Auto repeater function; Auto Off; Thumb-touch lock; Internal guide; Backlit LCD; PC Programmable.



**IC-T90A** 6M/2M/70cm FM Handheld - Palm-sized, simple to operate. Designed with a die-cast aluminum chassis. MOSFET technology, along with a 7.4V Lithium-ion battery, produces a full 5W output. Wideband RX 495 kHz to 999.990 MHz (cell blocked), in AM, FM or WFM modes. Pre-programmed with TV frequencies. Unique WX Alert feature constantly checks local active weather station for alert tone. If alert occurs, the HT automatically switches to the WX channel and beeps. 555 alphanumeric memories (500 regular, 50 scan edges, and 5 call channels). Dynamic Memory Scan (choose any of 500 memories to scan), and with soft partitioning, setting up a maximum of 18 banks. Over-sized buttons for easy operation. Optional PC software for memory, alphanumeric, scan list and parameter customizing.

Dim: 2.28"w x 3.44"h x 1.16"d; 8.5 oz. ® **\$249.99**

### Available Accessories

AD92SMA SMA - BNC adapter, BC139 Desk rapid charger, BP216 AA battery case, BP217 7.4V 1300mAh lith-ion, CP19R Cigarette cable with filter, CST90A Windows cloning software, HM128 Earphone + mic, HM131 Speaker/mic/earphone jack/clip, HM46 Slim-line speaker mic, HM75A Remote control mic, HS85 Headset with VOX, HS94 Ear-piece headset, LC152A Carrying case, MB83 Swivel belt clip, OPC474 Radio-to-radio clone cable, OPC478 PC RS232C cable, OPC478U PC USB cable, SP13 Earphone, VS1 VOX-PTT unit for HS94

## POPULAR ACCESSORIES



**HM-75A** - Remote control mic..... **\$70.99**  
**HM-131** - Speaker/mic/earphone ..... **\$38.99**  
**HS-94** - Ear-piece headset..... **\$24.99**  
**HM-128** - Earphone and microphone . **\$25.99**  
**CP-12L** - Right angle cig. cable w/filter. **\$36.99**  
**AD-92SMA** - SMA-BNC adapter ..... **\$16.99**

MORE ICOM ACCESSORIES IN PRICE GUIDE

## ORDER ON-LINE!

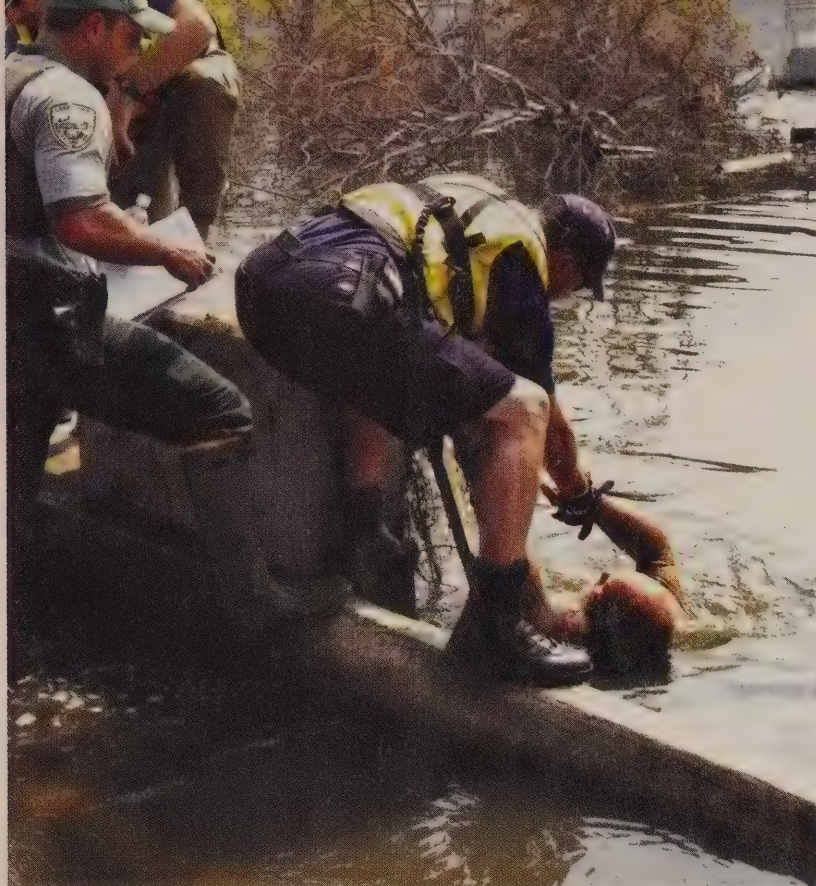


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Built military rugged. Built submersible\*.  
Ideal for emergency communications.

D-STAR is quickly growing as a preferred mode for emergency communications. The rugged, new IC-92AD offers 5 full watts of output power and comes D-STAR ready. Connect the new, optional GPS speaker mic to transmit position data – perfect for SAR or other in-the-field workers. Both the IC-92AD and its optional HM-175GPS hand mic are **submersible\*** and built **military rugged**. The IC-92AD also offers world-class analog performance, too. For the best of times and the worst of times, always be ready. Contact AES and reserve your IC-92AD today.

## NEW IC-92AD

Shown at approximate actual size.

This device has not been approved by the Federal Communications Commission. This device may not be sold or lease, or be offered for sale or lease, until approval of the FCC has been obtained.

©2007 Icom America Inc. The Icom logo is a registered trademark of Icom Inc. All information subject to change without notice or obligation. \*IP-X7: tested to work after being under 1 meter of water for 30 minutes. Rescue image courtesy of FEMA. gov. Photographer: Liz Roll. 9717

**DIGITAL**

**ICOM®**



## HF/6M RADIOS



**TS-480HX** HF/6M All-Mode Transceiver Covers HF/6M, including 60M and receive from 500 kHz to 60 MHz. Power: Up to 200W output on HF (requires two PS-53s or equivalent), 100W on 6M. AF DSP provides Digital noise limiter; Beat cancel; Noise Reduction; TX/RX EQ; AF filters; Transmit passband filter, Speech processor. Separate LCD control panel with speaker positions up to 13 ft. from main unit; Twin cooling fans; Full range of CW features; Auto tune; Memory name function; Multiple scan functions; Keypad frequency entry; CTCSS; Wide/narrow deviation; 1750 Hz tone; Noise blanker; Cross-band repeater (with TM-D700A); Optional IF filters available; PSK31 compatible; Packet cluster tune (with TM-D700A); PC-based control. Dim: 7.06" w x 2.38" h x 10.19" d (main unit), 7.06" w x 2.94" h x 1.44" d (panel); 7.05 lbs. (main); 1.1 lbs. (panel). © **\$1094.99**

**TS-480SAT** – 100W version of the HX. Includes built-in automatic antenna tuner ..... © **\$989.99**

### Available Accessories

E30348905 6' DC cable, HS6 Lightweight headphones, KPS15 23A switching power supply, MB480 Carry bracket w/handle, MC43S 8-pin hand mic, MC47 Multi function 8-pin hand mic, MC60A 8-pin amp desk mic, MJ88 Modular/8-pin adapter, PG20 22' DC cable, PG4Z 13' panel extension kit, PS53 Heavy-duty power supply, SO3 TCXO unit, SP23 Speaker, SP50B Mobile speaker, VGS1 Voice guide/storage unit, YF107C 500 Hz CW filter, YF107CN 270 Hz CW filter, YF107SN 1.8kHz SSB filter



**TS-570S(G)** HF/6M Transceiver – Covers HF/6M with 500 kHz to 30 MHz and 50 to 54 MHz receive. Output: 5-100W SSB/CW/FM and FSK (AM 25W); 100 memories; Large amber-colored backlit LCD display; 10-key direct entry; 46 easy to use menu functions; Multiple scanning functions; 16-bit AF-stage DSP; VOX; XIT/RIT; IF shift; Noise blanker; All mode squelch; TX audio shaping; Built-in electronic keyer; Full and semi break-in CW; CW message memory; CW auto tune; 38 tone CTCSS encoder and 1750 Hz tone; TX audio shaping; Packet and FSK; PC control option; Two antenna connectors; Packet port; Built-in automatic antenna tuner; Requires 13.8V DC @ 20.5A. Dim: 10.6" w x 3.7" h x 10.6" d; 15 lbs. **Closeout © \$1079.99**

### Available Accessories

DRU3A Digital recording unit, HS5 Deluxe headphones, HS6 Lightweight headphones, KPS15 23A switching power supply, MB430 Mobile mounting bracket, MC43S 8-pin hand mic, MC60A 8-pin amp desk mic, MC90 2-head DSP desk mic, PG2Y 13' DC cable, PG2Z 6.5' heavy-duty DC cable, PS53 Heavy-duty power supply, SO2 TCXO unit, SP23 Speaker, SP50B External mobile speaker, VS3 Voice synthesizer, YK88CN1 270 Hz CW filter, YK88C1 500 Hz CW filter, YK88SN1 1.8 kHz SSB filter

## KENWOOD HIGH END HF/VHF/UHF RADIO



TS-2000

**TS-2000** HF/VHF/UHF All Mode Transceiver Offers 3 platforms: (1) A traditional transceiver with full function front panel (TS-2000), (2) the high-tech looking "silver box" version with computer controlled software and no controls (TS-B2000), or (3) TS-2000 with 1.2 GHz (TS-2000X). 100W output (HF/6M/2M), 50W (70cm), 10W (optional 1.2 GHz). Dual RX; True IF/stage DSP on main band, AF stage DSP on sub-band; Digital filtering; Satellite ready, with transverter frequency display; Cross band repeat; Built-in auto tuner HF/6M; Built-in TNC and RS-232 for computer control; Built-in TCXO (.5PPM); CTCSS/DCS en/decode; Electronic memory keyer; Backlit front key panel; 5+1 antenna ports – 2 for HF and 6M, 1 each for 2M, 70cm, 1.2 GHz and HF RX. © **\$1614.99**

**TS-B2000** HF/VHF/UHF All Mode Transceiver Same as the TS-2000 but does not have front panel controls or LCD display. Includes PC control software..... © **\$1399.99**

**TS-2000X** HF/VHF/UHF All Mode Transceiver TS-2000 w/1.2 GHz ..... © **\$2074.99**

### Available Accessories

ARCP2000 PC/radio control software (included with B2000 model), DRU3A Digital recording unit, HS5 Deluxe headphones, HS6 Lightweight headphones, KPS15 23A switching power supply, MB430 Mobile mounting bracket, MC43S 8-pin hand mic, MC57DM Lit TTP mic, MC60A 8-pin amp desk mic, MC90 2-head DSP desk mic, PG2Y 13' DC cable, PG2Z DC cable, PS53 Heavy-duty supply, RC2000 Remote face plate mobile kit, SP23 Speaker, VS3 Voice synthesizer

## SINGLE BAND MOBILE



**TM-271A** 2M FM Transceiver – Delivers powerful mobile performance with 60W output and other great features such as multiple scan functions and memory names. Covers 144-148 MHz transmit with 136-174 MHz receive. N.O.A.A. Weather band reception with alert tone; FM Wide/Narrow; 200 memories; MIL-STD compliant; High quality audio; Illuminated keys and a large LCD with adjustable Green backlighting; CTCSS, DCS and 1750 Hz tone burst; Auto repeater offset ..... © **\$169.99**

### Available Accessories:

MJ88 Modular/8-pin adapter, PG2N DC cable, PG5D PC interface cable, SP50B External mobile speaker

## DUAL BAND MOBILE



**TM-V71A** 2M/440MHz Dual Bander – Covers 144-148 and 430-450 MHz with 118-524 and 800-1300 MHz receive (cell blocked). Dual Display with dimmer. Visual band scope. Weather alert and 1000 multi-function memory channels (10 memory scan banks) with alpha tags up to six characters. Call channel. Ten dedicated EchoLink® memory channels to communicate over the internet, using VoIP technology. Multiple scanning features. Power levels are 5/10/50W on both bands. Includes: Dual receive (V+V, U+U), scanning, weather alert, password and cross-band repeater operation. CTCSS, DCS and tone Burst encode/decode. PL Decode/Encode Automatic repeater offset. Large green or amber display. The radio's controls are very logical and feature separate volume/squelch for bands A and B. Digital voice recorder option. Data jack for external TNC. Dual audio outputs on rear panel. Includes: MC-59 (Up-Down and DTMF) hand microphone, DC power cable, fuse, front panel mounting bracket, main unit mounting bracket, microphone hanger and instruction manual. Free MCP-2A programming software is available for download at [www.kenwoodusa.com](http://www.kenwoodusa.com). Dim: 5.5" w x 1.7" h x 7.1" d; wt. 3.3 lbs... © **\$399.99**

### Available Accessories:

DFK3D Front panel kit, MJ88 Modular to 8 pin microphone plug adapter, PG2N Extra DC cable, PG5A Packet data cable, PG5F Extension cable kit, PG5G PC serial programming cable [DB9], PG5H PC interface cable kit, SP50B External mobile speaker, VGS1 Voice guide and storage unit

© Price after instant coupon, coupons may expire 10/31/07. Please call/web for current price and promotions.

## MICROPHONES



**MC-60A** Desktop Microphone – Excellent performance when used with any KENWOOD transceiver. The zinc die-cast base offers great stability and is complete with a feather-touch PTT switch, an impedance selector switch, built-in preamplifier and 6 ft. coiled cord with 8-pin plug. Requires two "AA" batteries ..... © **\$149.99**

**MC-90** DSP Compatible Desk Microphone – It is supplied with two interchangeable heads. One has a flat response for good overall performance, while the other offers exceptional clarity and a characteristic that peaks at around 3 kHz, making it ideal for DX. There is a 3-position switch on the base to tailor the low-range cutoff frequency to suit the operator. Includes 6 ft. coiled cord with 8-pin plug ..... © **\$249.99**



# KENWOOD

## DUAL BAND MOBILE w/TNC



AvMap  
Ready

NEW

**TM-D710A** 144/440 MHz Dual Band Data Communicator – Many more features than its predecessor, the popular TM-D700A. Covers 144-148 and 430-450 MHz TX with 144-148 and 430-450 RX plus 118-524 MHz (Band A), 136-524 MHz (Band B) and 800-1300 MHz (less cellular). Dual receive, even on same band; NOAA weather alert; 1000 memory channels. MCP compatible with the ARRL Travel Plus® CD. Full 50W output on both VHF and UHF. Key features include: internal clock for APRS® (Automatic Packet/position Reporting System) time and date stamp, **APRS functions:** Sort; Filter, QSY; Decay algorithm; Proportional pathing; Speed and altitude beaconing, Weather beaconing with Peet Brothers® and Davis® weather stations; Voice alert. EchoLink ready with ten dedicated channels; Built-in sound card interface; NMEA 0183 GPS I/O port – can be employed as part of Kenwood's *Skycommand System II+* when used with the TS-2000 series. Selectable orange or green screen background.

Dim: (panel) 6.24" w x 2.81" h x 2.24" d, (body) 5.60" w x 1.76" h x 6.32" d; 3.3 lbs ..... **\$599.99**

### Available Accessories:

MJ88 Modular to 8 pin microphone plug adapter, PG2N Extra DC cable, PG5A Packet data cable, PG5F Extension cable kit, PG5G Programming interface kit, PG5H Computer interface kit, SP50B External mobile speaker, VG51 Voice guide and storage unit

# KENWOOD

## KES-5

### Mobile speaker

Heavy duty, meets Military Standards 810C, D, E, F for low pressure, high and low temperature, temperature shock, solar radiation, humidity, salt fog, dust, vibration and

shock. This 4 ohm speaker handles 40W of power, making it great for emergency and other vehicles requiring loud and clear audio. Includes a metal bracket to support the speaker from below or above, and attached cable without a connector so you can install your own. Dim: 5.1" w x 5.1" h x 3" d; 1.8 lbs ..... **\$59.99**

## DUAL BAND MOBILE w/TNC

CLOSE  
OUT!



AvMap  
Ready

**TM-D700A** 144/440 MHz Dual Band Data Communicator – Fully equipped to complement SSTV, GPS and APRS® operations. Covers: 144-148, 430-450 MHz transmit with 118-148, 136-175, 300-524 & 800-1300 MHz (cellular blocked) wide band receive. Power: 50/10/5W (VHF); 35/10/5W (UHF); Detachable control panel with large backlit LCD and multi-function key display; Backlit microphone with alphanumeric input; Easy-to-use menu system; Advanced APRS-99 features; Built-in 1200/9600bps TNC (AX.25); DX cluster monitoring; Dual receive on same band for voice and data; 200 alphanumeric memories; 2 call channels; 10 programmable memory scan banks; Built-in CTCSS and 1750 tone burst; Digital Code Squelch (DCS); DTMF memory; Cross band and fixed band repeater operation; DCS code scan, tone, CTCSS scan; 10-channel program scan; Visual band scope; 13.8VDC @ 11.5A. Dim: 5.5" w x 2.4" h x 1.2" d; 0.4 lbs. (control); 5.5" w x 1.2" h x 7" d; 2.6 lbs. (main). **Closeout @ \$469.99**

### Available Accessories:

MB201 Mobile bracket, MJ88 Modular/8-pin adapter, PG2N DC cable, PG4X 13' extension cable kit, PG5A Packet data cable, SP50B External mobile speaker, VS3 Voice synthesizer

## SINGLE BAND HANDHELD



**TH-K2AT** 2M FM HT 5W RF output; 100 memories with 6-character names; Large LCD panel and backlit keys; Internal VOX; Weather alert and receive (US only); Automatic simplex checker; Auto repeater offset; Multiple scanning functions; Priority scan; Built-in 42-tone CTCSS and 104-code DCS; DTMF encode; Memory channel transfer; Time-out timer; Auto power off; Meets MIL-STD-810 standards for resistance to rain, vibration, shock & humidity; PC programming; Charges 3x faster than previous models with its high-capacity NiMH battery. Dim: 5" h x 2.4" w x 1.1" d; 12.5 oz ..... **\$139.99**

Dim: 5" h x 2.4" w x 1.1" d; 12.5 oz ..... **\$139.99**

### Available Accessories:

BT14 Six "AA" battery holder, EMC3 Lapel clip mic/earphone PC, HMC3 VOX/boom mic headset, KHS21 Boom mic headset, KSC24 Rapid charger, PB43N 7.2V 1100mAh NiMH battery, PG2W DC cable, PG3J Cigarette cord with filter, PG4Y 9 pin programming cable, SC54 Soft case, SMC32 Mini right angle speaker mic, SMC33 Speaker mic with remote control, SMC34 Speaker mic with volume function keys, WR2 Water resistant bag

## DUAL BAND HT w/TNC

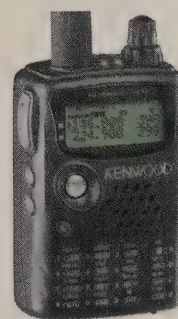
**TH-D7A(G)** 2M/440 MHz Dual Band Data Communicator – Equipped with a built-in TNC for simple packet operation or with a GPS as a APRS™ station that reports position, speed and heading as well as calculation of distance to destination. Use for APRS™ messaging to send up to 45 characters without a PC. Power: 5.5W output @ 13.6V DC; Coverage: (2M) TX: 144-148 MHz, RX: 118-174 MHz, (440 MHz) TX: 430-450 MHz, RX: 400-480 MHz. 200 memories; Station list

stores data in up to 40 memory channels; 1200 & 9600 baud TNC; Grid square locator display; Dual receive on same band for voice and data (VHF only); PC programmable (PG-4W required); 16 backlit keys; CTCSS encode/decode; MIL-SPEC 810C/D/E water resistant; 10 channel DTMF phone and auto patch memories; TM-V7A, TM-742D, TM-V71A & TM-D710A DTMF remote control; Altitude; Time; 3-position memory; Audible emergency signal; Auto message response; Data band settings. Dim: 4.7" h x 2.3" w x 1.5" d; 12 oz ..... **\$324.99**

### Available Accessories:

BC19 Rapid charger, BT11 Four "AA" battery holder, EMC3 Lapel clip mic/earphone PC, HMC3 VOX/boom mic headset, J29063113 Extra belt clip, PB39 9.6V 600mAh 5W battery, PG2W DC cable, PG3J Cigarette cord with filter, PG4W PC software and cable, SC47B Black soft case, SC47OR Orange soft case, SMC32 Mini right angle speaker mic, SMC33 Speaker mic with remote control, SMC34 Speaker mic with volume function keys, WR2 Water resistant bag

## TRI BAND HANDHELD



**TH-F6A** FM Triband HT Covers 144, 220 and 440 MHz plus wideband receive 0.1-1300 MHz (cellular blocked), includes AM Aircraft receive and weather. Dual channel receive capability; FM/FM-W/FM-N/AM plus SSB/CW receive modes; 435 memories (8 groups of 50 channels); 3 call channels plus 20 for programmable scan; 5W output

with 7.4V lithium-ion battery; 16-key backlit pad plus multi-scroll key; Built-in charging circuitry, battery recharges while unit operates from a DC supply; Selectable squelch configuration; Memory shift; Key lock; Built-in CTCSS encode/decode (42 subtone frequencies) DCS (104 codes), 1750Hz tone burst; Compatible with external 1200/9600bps TNC; Large 8-character alphanumeric display; Automatic simplex checker; Wireless remote control function; ATT (attenuator) on/off; Battery indicator; Internal VOX; MCP programming software via [www.kenwood.net](http://www.kenwood.net) (using PG-4Y cable); Meets MIL-STD 810 C/D/E for resistance to vibration, shock and light rain. Comes with belt hook, flexible SMA antenna, hand strap, PB-42L 7.4V 1550mAh lithium-ion battery pack, AC adapter. Dim: 3.4" h x 2.3" w x 1.2" d; 8.8 oz ..... **\$329.99**

### Available Accessories:

BT13 AA battery case, EMC3 Lapel clip mic/earphone PC, HMC3 VOX/boom mic headset, KHS21 Boom mic headset, PB42L 7.4V 1550mAh lith-ion battery, PG2W DC cable, PG3J Cigarette cord w/filter, PG4Y 9 pin programming cable, SC51 Softcase with swivel belt clip, SMC32 Mini right angle speaker mic, SMC33 Speaker mic w/remote control, SMC34 Speaker mic w/volume function keys, WR2 Water resistant bag

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## HF/VHF/UHF RADIOS



**FT-857D** Ultra-compact, HF/VHF/UHF 100W All-Mode Mobile – Blends leading-edge technologies of the FT-897 and MARK-V into the smallest full-power HF multi-mode. Now includes 60M! Unique ergonomics deliver unmatched ease of use with an ultra-compact design featuring a large, main tuning dial. Covers HF, 50, 144 and 430 MHz, with 0.1–56, 76–108, 118–164 and 430–470 MHz receive. Power: 100W HF/6M, 50W 2M, 20W 70cm. 200 memories (10 groups); Enhanced performance with installed DSP board; Large, multi-color dot matrix display; IF shift; Noise blanker; IPO; AGC; CTCSS/DCS; Auto repeater shift; SmartSearch™; Spectrum scope; ARTS™; Optional remote-head operation and remote control mic. Dim: 6.1" w x 2.0" h x 9.2" d; 4.6 lbs ..... **Free YSK-857 @ \$699.99**

### Available Accessories:

BET YAE TUNECONT Better RF, W4R ANTENNABOSS W4RT interface, W4R OBPSTD W4RT Speech compressor, W4R OPFCW W4RT 500 Hz Collins, W4R OPFSSB W4RT 2.3 kHz Collins, ADMS4B Programming Software, ATAS120 HF/6/2/430 antenna, ATAS25 40/20/15/10/6/2/430 antenna, ATBK100 ATAS100 base kit, CT39 Packet cable, CT58 Band data cable, CT62 Cat interface cable, EDC20 DC cord, FC30 External antenna tuner, FC40 Auto tuner, FP1023 23A power supply, FP1030A 25A power supply with meters, MD100A8X Desk mic with tone control, MD200A8X Deluxe high fidelity desk mic, MH36E8J TTP mic, MH59A8J Remote control TTP mic, MLS100 Mobile speaker, TCXO9 TCXO unit (0.5ppm), T902322S Extra DC cord, YA007FG FG whip w/mount, YF122C 500 Hz Collins CW filter, YF122CN 300 Hz Collins CW filter, YF122S 2.3 kHz Collins SSB filter, YH775TA Stereo headphones, YSK857 Separation kit



**FT-897D** HF/VHF/UHF Multi-Mode Portable/Base – Self-contained, can operate without an external power supply. Using the optional 13.2V @ 4500mAh NiMH internal battery pack, it operates at 20W on all bands except 430 MHz. Two batteries may be installed simultaneously giving up to 8 hours of use. Power with external 13.8V DC is 100W (HF/50 MHz), 50W (144 MHz) and 20W (430 MHz), all adjustable down to 5 Watts; Includes 60 meters; SSB/CW/AM/FM and digital modes; Large-diameter main tuning dial; Built-in keyer, DSP and TCXO; Selectable tuning steps (2 kHz / 4 kHz); Easy receiver offset tuning; Scrolling front panel; Multi-function keys with instant "hot key"; RS-232 port; Aluminum, die-cast chassis. Dim: 7.9" w x 3.14" h x 10.3" d; 8.6 lbs. • **\$819.99**

### Available Accessories:

Uses the same accessories as the FT-857D above, but excluding: CT58, FP1023, FP1030A, TCXO9 & YSK857.

Additional accessories for FT-897D: CD24 4-hr charge adapter; FNB78, FNB78 4.5AH NiMH battery, FP30 Internal PS, MMB80 Mobile bracket, PA26B 110VAC charger; CD-24

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**FT-817ND** HF/VHF/UHF Backpack Transceiver Self-contained and low power for portability. Covers 160–10M, 60M, 50 MHz, 144 MHz, 430–450 MHz, plus Alaska emergency channel (5167.5 kHz) Receive: 100 kHz – 56 MHz, 76–154 MHz, 420–470 MHz, plus AM aircraft band. Power: 5W SSB/CW/FM (13.8V external DC), 1.5W AM, 2.5W SSB/CW/FM (9.6V NiCad pack) or 8 AA's (includes internal alkaline case), 0.7W AM, up to 5W SSB/CW/FM. Dual VFOs; 200 alpha memories; SmartSearch™ memory loading. Modes: USB, LSB, CW, AM, FM, W-FM, AFSK, packet; RTTY, PSK31-U, PSK31-L, user-defined USB/LSB. Two-color, multi-function LCD meters ALC, power output, SWR, modulation. RF gain/squelch control; Noise blanker; Attenuator; Split capability, IF shift, and RTT; Electronic keyer; VOX; Auto repeater shift; CTCSS/DCS; Front/rear antenna jacks; PC control capability; 1400mAh NiMH battery and charger. Dim: 5.3" w x 1.5" h x 6.5" d; 2.6 lbs ..... **\$599.99**

### Available Accessories:

W4R OBF817/NDIY W4RT CW & SSB Collins Filter, W4R OBPSTD W4RT Speech compressor, W4R OPFCW W4RT 500 Hz Collins, W4R OPFSSB W4RT 2.3 kHz Collins, ADMS4A Programming software, ATAS25 40/20/15/10/6/2/430 MHz antenna, CSC83 Soft case, CT39 Packet cable, CT62 Cat interface cable, EDC6 DC cord, FNB72 9.6V 1000mAh NiCad, FNB85 9.6V 1400mAh NiMH, MH36E8J TTP mic, MLS100 Mobile speaker, NC72B Wall charger, TCXO9 TCXO unit, YA007FG FG whip with mount, YF122C 500 Hz Collins CW filter, YF122CN 300 Hz Collins CW filter, YF122S 2.3 kHz Collins SSB filter

## HF/6M RADIOS



**FT-450** 100W All Mode Transceiver – Covers 160–6M TX with 0.03–56 MHz RX and AM/FM/SSB/CW modes, built-in CTCSS. 500 regular memories and two voice memories. Power: 100W output. 10 kHz roofing filter and 400 MHz IF DSP technology. Built-in electronic keyer with 118 character CW beacon function. Multi-color, multi-function LCD display and bar-graph metering. Selectable AGC, IF width & shift, contour, digital noise reduction, manual notch filter and clarifier. IPO, VOX. Dedicated Data Jack for FSK-RTTY. Digital voice announcement of frequency, mode and S-meter. Comes with hand mic, mic clip & DC power cord. Optional internal antenna tuner & carrying handle. Dim: 9" w x 3.3" h x 8.5" d, 7.9 lbs ..... • **\$819.99**

**FT-450AT** – Same as FT-450 but includes factory installed ATU-450 auto antenna tuner. • **\$969.99**

### Available Accessories:

ATAS-120 HF/6/2/430 antenna, ATBK-100 Antenna base counterpoise kit, ATU-450 Internal coax automatic antenna tuner (160–6M, FT-450 only), CT-118 Control cable for Quadra System, FC-40 External automatic wire antenna tuner, FP-1023 23A Switching power supply, FP-1030A 30A power supply, MD100A8X Desk mic with tone control, MD200A8X Deluxe high fidelity desk mic, MHG-1 Carring handle, MMB-90 Mobile mounting bracket, T9207451 10-pin DIN plug & cable, YH775TA Stereo headphones

## YAESU

NEW



**FT-950** HF/6M transceiver – Built on the foundation of the popular FTdx9000 and FT-2000 transceivers. Covers 160–10 Meters + 50 MHz band (TX) and 30 kHz – 56 MHz (RX), all modes. Power: 100W SSB/CW/FM (25W AM). Speech Processing; Built-in Electronic Keyer; Digital Noise Reduction; Auto-Notch; Two Antenna Jacks; Auto antenna tuner. Dim: 14.4" w x 4.5" h x 12.4" d; 28.7 lbs..... **\$1499.99**

More FT-950 information on Next Page



**FT-2000** Competition-Grade HF/6M transceiver Covers 160–6M (TX) and 30 kHz–60MHz (RX), all modes. Power: 100W. Features: Built-in automatic antenna tuner; DSP- variable IF Bandwidth; IF shift and Contour Tuning; First IF Roofing Filters (3 kHz/6 kHz/15 kHz); Dual In-band Receive; Receiver Front End has variable RF Tuning Preselector working with a bank of fixed bandpass filters; External display port for optional DMU-2000 unit for viewing of RF scope, Audio scope and Oscilloscope displays. Dim: 16" w x 5.3" h x 14" d; 33 lbs ..... • **\$2469.99**

**FT-2000D** – Same as the FT-2000 except 200W output; external supply included. .... • **\$3099.99**

### Available Accessories

CT-119 Firmware upgrade cable, DMU2000 Data management unit, FH2 Remote Keypad, MD100A8X Desk mic w/tone control, MD200A8X Dlx hi-fidelity desk microphone, MH31B8 Extra hand mic, MTU160 U-tuning kit A, 160M, MTU30/20 U-tuning kit C; 30/20M, MTU80/40 U-tuning kit B; 80/40M, SP2000 External speaker w/audio filters, YF122C 500Hz Collins CW filter, YF122CN 300Hz Collins CW filter, YH775TA Stereo headphones



**FTDX-9000 Series** – Covers HF and 6 meters; available in three configurations including 200 and 400W versions. Class-A operation at 100W (400W version or 75W with the 200W version). The 200W versions has a built-in power supply; 400W version includes an external supply. Large analog meters and a 6.5 in. TFT display on the D version. A 400 MHz direct digital synthesizer combines with the receiver to yield a two-tone dynamic range of >110 dB along with a 3rd-order intercept point in excess of +40 dBm. The fully-loaded D version includes three permeability-tuned, motor-driven "u" RF tuning modules with Q>300, for ultra-sharp RF selectivity. IF DSP speech processing; Microphone EQ; Voice, Data and CW Monitor; Low level transverter output; Flash Memory port; Keyboard connector.

**FTDX-9000D** 200W, TFT display .... **\$11499.99**

**FTDX-9000MP** 400W, no TFT ..... **\$12049.99**

**FTDX-9000 Contest** 200W, no TFT **\$5699.99**

(all FTDX-9000 radios are drop shipped from Yaesu)

### Available Accessories

MD100A8X Desk microphone w/tone control, MD200A8X Dlx hi-fidelity desk microphone, MH31B8 Extra hand microphone, YH775TA Stereo headphones  
FTDX-9000D & FTDX-9000 Contest only:  
SP9000 Ext. dual speakers w/filters (FTDX-9000MP comes with similar dual speaker PPS-9000H)



# Introducing the Yaesu FT-950 transceiver for DX enthusiasts

## Superb receiver performance

## Direct lineage from the legendary FT DX 9000 and FT-2000



### HF/50 MHz 100 W Transceiver

## FT-950

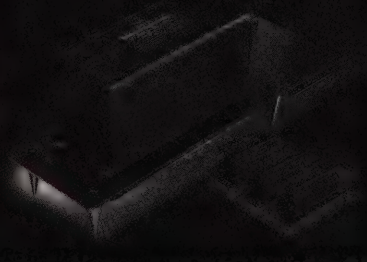
- Triple-conversion super-heterodyne receiver architecture, using 69.450 MHz 1st IF
- Eight narrow band-pass filters in the RF stage eliminate out of band interference and protect the powerful 1st IF
- 1st IF 3 kHz Roofing filter included
- High-speed Direct Digital Synthesizer (DDS) and high-spec Digital PLL for outstanding Local Oscillator performance
- Original YAESU IF DSP advanced design, provides comfortable and effective reception. IF SHIFT / IF WIDTH / CONTOUR / NOTCH / DNR
- DSP enhancement of Transmit SSB/AM signal quality with Parametric Microphone Equalizer and Speech Processor

- Built-in high stability TCXO ( $\pm 0.5$  ppm after 1 minute @ 77° F)
- Built-in automatic antenna tuner ATU, with 100 memories
- Powerful CW operating capabilities for CW enthusiasts
- Five Voice Message memories, with the optional DVS-6 unit
- Large Multi-color VFD (Vacuum Fluorescent Display)
- Optional Data Management Unit (DMU-2000) permits display of various operating conditions, transceiver status and station logging.
- Optional RF  $\mu$ -Tune Units for 160 m, 80/40 m and 30/20 m Bands

### Optional, YAESU Exclusive, Fully-Automatic $\mu$ -Tuning Preselector System!

**Fully automatic, Ultra-sharp, External  $\mu$ -Tuning Preselector (optional) features a 1.1" (28 mm) Coil for High Q**

On the lower Amateur bands, strong signal voltages impinge on a receiver and create noise and intermod that can cover up the weak signals you're trying to pull through. YAESU engineers developed the  $\mu$  (Mu) Tuning system for the FT DX 9000/FT-2000, and it is now available as an option for the FT-950. Three modules are available (MTU-160, MTU-80/40, MTU-30/20); these may be connected externally with no internal modification required! When  $\mu$ -Tuning is engaged, the VRF system is bypassed, but the fixed Bandpass Filters are still in the received signal path.



### Optional External Data Management Unit (DMU-2000) Provides Many Display Capabilities

Enjoy the ultimate in operating ease by adding the DMU-2000! Enjoy the same displays available with the FT DX 9000 and FT-2000: Band Scope, Audio Scope, X-Y Oscilloscope, World Clock, Rotator Control, Extensive Transceiver Status Displays, and Station Logging Capability. These extensive functions are displayed on your user-supplied computer monitor.



Shown with after-market keyer paddle, keyboard, and monitor (not supplied)

DMU-2000 Data Management Unit (option)

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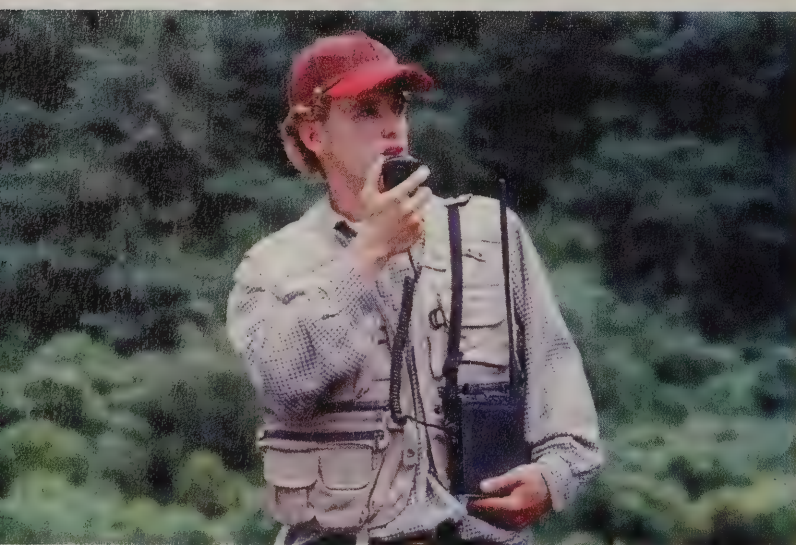
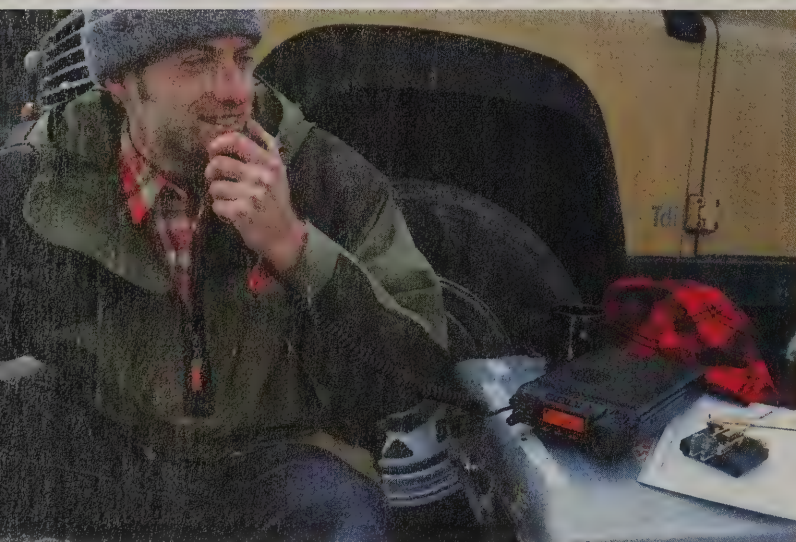
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The World's Best DXer's Choice

Vertex Standard  
US Headquarters  
10900 Walker Street  
Cypress, CA 90630 (714)827-7600



# The Hottest Field Gear Anywhere!



**HF/VHF/UHF Portable Operation  
Just Got a Lot More Powerful!**

**FT-897D** **TCXO** **DSP** **60 m Band**

HF/50/144/430 MHz  
100 W All Mode Transceiver  
(144 MHz 50 W/430 MHz 20 W)



**HF/VHF/UHF Multimode Mobile Transceiver,  
now Including Built-in DSP**

**FT-857D** **DSP** **60 m Band**

HF/50/144/430 MHz  
100 W All Mode Transceiver  
(144 MHz 50 W/430 MHz 20 W)

**Automatic Matching for  
FT-897/857 Series Transceivers**



**FC-40**  
Automatic-Matching  
200-Memory  
Antenna Tuner  
(160 m ~ 6 m Band)

**WATERPROOF**

**Mobile Auto-Resonating 7-430 MHz for  
FT-897/857 Series Transceivers**



**ATAS-120A**  
Active Tuning Antenna System  
(no separate tuner required)

VHF/UHF  
Base RadialKit  
ATBK-100 for  
ATAS-120A.



**REAL PERFORMANCE,  
REALLY PORTABLE**

**FT-817ND**  
HF/50/144/430 MHz  
5 W All Mode Transceiver  
(AM 1.5 W)

**60 m Band**

**ATAS-25**  
Manually-Tuned Portable Antenna



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# NEW COMPACT HF TRANSCEIVER WITH IF DSP

A superb, compact HF/50 MHz radio with state-of-the-art IF DSP technology configured to provide YAESU World-Class Performance in an easy to operate package. New licensees, casual operators, DX chasers, contesters, portable/field enthusiasts, and emergency service providers - **YAESU FT-450... This Radio is for YOU!**



HF/50 MHz 100 W All Mode Transceiver

**FT-450** Automatic Antenna Tuner ATU-450 optional

■ **FT-450AT** With Built-in ATU-450 Automatic Antenna Tuner

Compact size : 9" X 3.3" x 8.5" and Light weight : 7.9 lb

■ Large informative Front Panel Display, convenient Control knobs and Switches

■ The IF DSP guarantees quiet and enjoyable highperformance HF/50 MHz operation



Handy Front Panel Control of Important Features including:

● **CONTOUR Control Operation**

The Contour filtering system provides a gentle shaping of the filter passband.

● **Manual NOTCH**

Highly-effective system that can remove an interfering beat tone/signal.

● **Digital Noise Reduction (DNR)**

Dramatically reduces random noise found on the HF and 50 MHz bands.

● **IF WIDTH**

The DSP IF WIDTH tuning system provides selectable IF passband width to fight QRM.

SSB - 1.8/2.4/3.0 kHz, CW - 0.5/1.8/2.4 kHz

● **Digital Microphone Equalizer**

Custom set your rig to match your voice characteristics for maximum power and punch on the band.

● **Fast IF SHIFT Control**

Vary the IF SHIFT higher or lower for effective interference reduction / elimination.

■ The rugged FT-450 aluminum die-cast chassis, with its quiet, thermostatically controlled cooling fan provides a solid foundation for the power amplifier during long hours of field or home contesting use.



MOS FET RD100HHF1

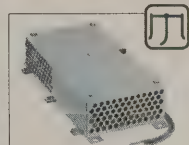


The rugged aluminum die-cast chassis with cooling fan

**More features to support your HF operation**

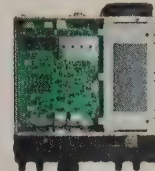
● 10 kHz Roofing filter ● 20 dB ATT / IPO ● Built-in TCXO for incredible  $\pm 1$  ppm/hour (@+77 °F, after warmup) stability ● CAT System (D-sub 9 pin): Computer programming and Cloning capability ● Large, Easy-to-See digital S meter with peak hold function ● Speech Processor ● QUICK SPLIT to automatically Offset transmit frequency (+5 kHz default) ● TXW to monitor the transmit frequency when split frequency operation is engaged ● Clarifier ● Built-In Electronic Keyer ● CW Beacon (Up to 118 characters using the CW message keyer's 3 memory banks) ● CW Pitch Adjustment (between 400 to 800 Hz, in 100 Hz steps) ● CW Spotting (Zero-Beating) ● CW Training Feature ● CW Keying using the Up/Down keys on the optional microphone ● Two Voice Memories (SSB/AM/FM), store up to 10 seconds each ● 20 seconds Digital Voice

■ Operate anywhere using optional internal or external antenna tuning systems



Internal Automatic Antenna Tuner ATU-450

Covering 160 m to 6 m Amateur Bands Dipole or Yagi antennas (The ATU-450 Antenna Tuner is included in the FT-450AT)



External Automatic Antenna Tuner FC-40  
Covering 160 m to 6 m Amateur Bands (with 65+ ft end fed wire)



Active Tuning Antenna System ATAS-120A  
Covering 40 m to 6 m Amateur Bands (For mobile)

Recorder ● Dedicated Data Jack for FSK-RTTY operation ● Versatile Memory System, up to 500 memory channels that may be separated into as many as 13 Memory Groups ● CTCSS Operation (FM) ● My Band / My Mode functions, to recall your favorite operating set-ups ● Lock Function ● Adjustable Main Tuning Dial Torque ● C.S. Switch to recall a favorite Menu Selection directly ● Hand Microphone included ● **IMPORTANT FEATURE FOR THE VISUAL IMPAIRED OPERATORS** - Digital Voice Announcement of the Frequency, Mode or S-meter reading

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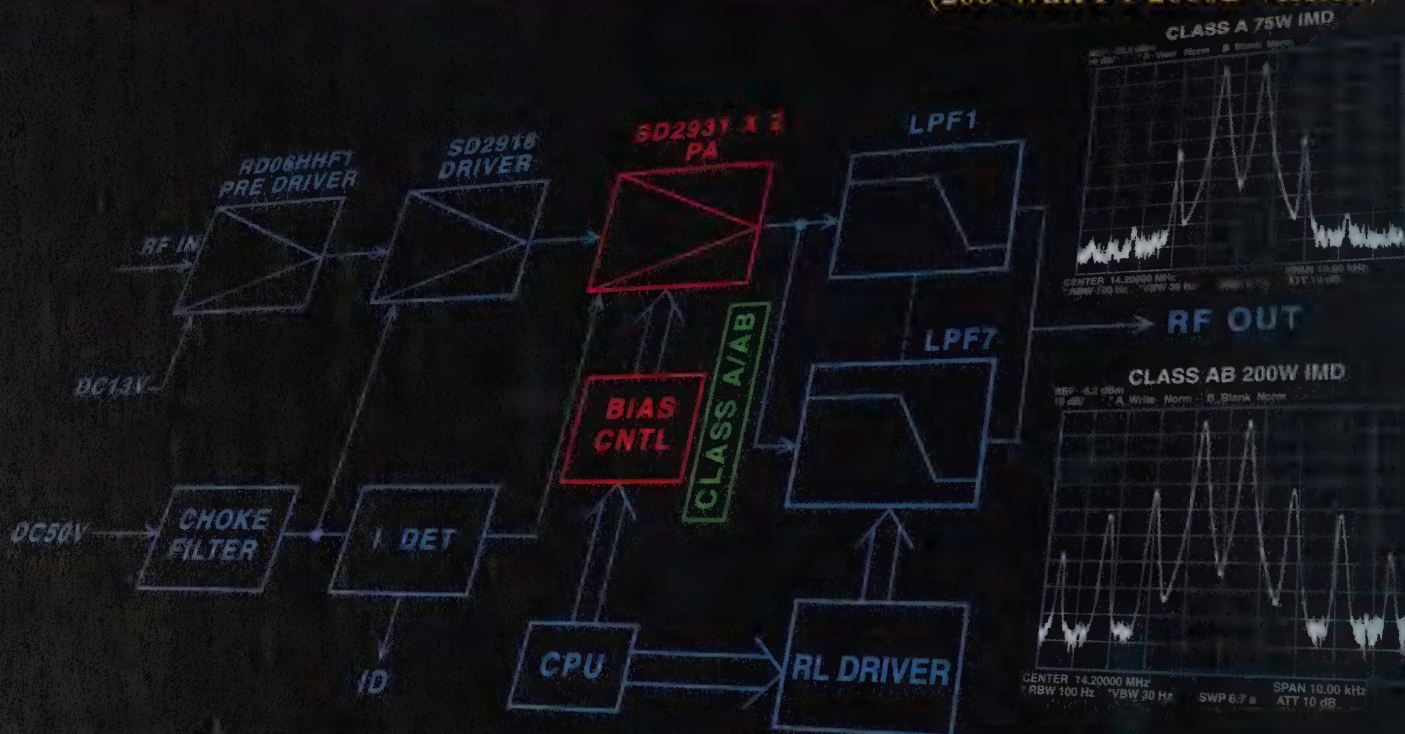
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**The radio... YAESU**  
Choice of the World's top DX'ers

# Ultra-low Distortion Class-A Final Amplifier

(200-Watt FT-2000D version)



The 200-Watt FT-2000D includes provision for operation in "Class-A" mode at 75 Watts of power output. It utilizes high bias current to produce very low transmitter Intermodulation products. The 3rd-order IMD products are typically suppressed 45 dB or better. The 5th and higher-order IMD is typically suppressed 70 dB or more. You may adjust the bias level between Classes A and AB to meet the demands of high ambient temperature in your station, and the long duty cycles associated with contest or DX-pedition use.

The FT-2000D (200-Watt version) utilizes push-pull SD2931 MOS FET devices, operating at 50 Volts. The user-adjustable bias control permits adjustment for optimum suppression of Intermodulation distortion products. The elaborate heat sink design includes a combination of aluminum and 3mm thick high-conductivity copper plate. The total heat sink capacity of 2720 cc will ensure many years of reliable operation of this 200-Watt powerhouse.



HF/50 MHz Transceiver

**FT-2000D** 200 W Version (External Power Supply)

**FT-2000** 100 W Version (Internal Power Supply)

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# The radio... FT DX 9000

## DISTINGUISHED

Experience  
400 imposing Watts,  
and call with confidence!



The FT DX 9000MP's Power Amplifier stage utilizes SD2931 MOS FET devices in a parallel, push-pull configuration, a conservative design that permits ultra-clean Class-A operation at a full 100 Watts of output, with continuous bias adjustment between Classes A and AB available on the front panel. If you have a professional microphone with a balanced "Cannon" (XLR) connector, you may connect it directly to the matching connector on the front panel, then use our exclusive three-band Parametric Microphone Equalizer to adjust the center frequency, bandwidth, and equalizer gain in the bass, mid-range, and treble frequency ranges.

**YAESU engineers take signal quality seriously, because we know you do, too!**

### HF/50 MHz Transceiver FT DX 9000MP 400 W Special Order Version

Two Pairs of Meters, plus LCD Window, Data Management Unit and Flash Memory Slot Built In, Main/Sub Receiver VRF, plus Full-Dual Receive Capability, External 50 V/24 A Switching Regulator Power Supply and Speaker with Audio Filters.

Display color (Umber or Light Blue) may be selected at the time of purchase. Modification from 400 to 200 W not possible.



### HF/50 MHz Transceiver FT DX 9000D 200 W Version

Large TFT, Data Management Unit and Flash Memory Slot Built In, Main/Sub Receiver VRF, plus Full Dual Receive Capability, Three  $\mu$ -Tuning Modules for 160 - 20 M, 50 V/12 A Internal Switching Regulator Power Supply



### HF/50 MHz Transceiver FT DX 9000 Contest 200 W Custom-Configurable Version

Two Pairs of Meters, plus LCD Window, VRF Input, Preselector Filter, Three Key Jacks, and Dual Headphone Jacks, 50 V/12 A Internal Switching Regulator Power Supply

Display color (Umber or Light Blue) may be selected at the time of purchase. Modification from 200- to 400-Watt version not available.

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# YAESU

## SINGLE BAND MOBILE

**FT-1802M** 50W 2M FM transceiver – Extended receive 136–174 MHz (includes a 10 channel NOAA weather bank); 221 memories with eight banks and Alpha-numeric labeling; CTCSS and DCS Encode/Decode; Automatic Repeater Shift (ARS), Automatic Power-Off (APO) and Busy Channel Lock-out (BCLO); Morse Code trainer; Illuminated front panel keys; One-touch access to Yaesu's WIRES-II™ Internet Linking System; Password security prevents unauthorized use; Includes backlit DTMF microphone with four programmable keys and direct keyboard frequency entry. Dim: 5.6" w x 5.8" d; 2.6 lbs..... © **\$129.99**  
**Available Accessories:**  
ADMS1802 Programming software, MLS100 Mobile speaker

## SINGLE BAND MOBILE

**FT-2800M** 2M FM Transceiver – Cool, quiet, and ruggedly-built. Utilizes a Ultra-high Dissipation heat sink design, eliminating the need for a cooling fan. Covers 144-148 MHz transmit with 137-174 MHz receive. Includes Weather with Alert and 221 memories. Power: 65/25/10/5W; Direct keypad frequency entry with a backlit microphone that includes a 9-memory, 16-digit, DTMF autodialer and 4 user-programmable "soft" keys; Advanced track tuning RF input filtering; Alphanumeric display; Ergonomic, impact-resistant, MIL-spec design; CTCSS encode/decode and SmartSearch™ auto memory loading; Versatile scanning features a choice of scanning-resume option along with a "preferential" list; WIRES™ ready. Dim: 6.3" w x 2.0" h x 7.3" d; 4 lbs ..... © **\$139.99**  
**Available Accessories:**  
ADMS2J Programming software, MLS100 Mobile speaker, S8002051 Extra mobile bracket, S8101436 Extra DC cable

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## LARGE STOCKS

**We are in a position to take care of your needs out of our Regular Inventory.**

## DUAL BAND MOBILES

**FT-7800R** 2M/440 MHz FM Mobile – Designed for simplicity of operation along with a high performance receiver section. Ideal for simplex, repeater, or satellite operation on both bands, without the need for cross-band repeat capability. Covers 144-148 & 430-450 MHz transmit with 108-520 & 700-999 MHz (cell blocked) receive. Power: 50W (2M), 40W (430 MHz); N.O.A.A. weather alert; 1000+ memory channels; One-touch operation via five "hyper memory" buttons; Illuminated keypad and mic keys; WIRES™ capability. Dim: 5.5" w x 1.6" h x 6.6" d; 2.2 lbs ..... **Free YSK-7800 © \$249.99**  
**Available Accessories:**  
ADMS2K Programming software, CT39 Packet cable, MLS100 Mobile speaker, MMB60 Quick release mobile mount, T9021715 Extra DC cable, YSK7800 Remote separation kit

FTM-10 series doesn't include a hand mic. Mic and PTT is built-in the control head.

**FTM-10R** 2M/440 FM Mobile – Compact, perfect for outdoor motor sports communications. Covers 144-148 and 430-450 MHz with extended receive coverage of 0.5-1.8, 76-108, 108-137, 137-174, 174-222, 300-420, 420-470, 470-800 and 800-999 MHz bands (cellular blocked). Has 500 memory channels with 8-digit alphanumeric tags and includes an independent AM/FM broadcast receiver. Listen to your favorite AM or FM stereo broadcast station and monitor an amateur band at the same time. AM/FM/NFM/WFM (Stereo) modes. External audio input is also available to connect an iPod® or other audio devices. Power Output: 50W (2m)/40W (70cm). The microphone and PTT button are built into the front panel. If a conventional hand mic is desired, it must be ordered separately. Blue LCD display, keys and indicators are illuminated with very bright LEDs. Automatic Range Transponder System ARTS™, Event timer Stopwatch; Club Channel Monitor; VOX; Wireless cloning; Dual receive; Smart Search; CTCSS & DCS; DTMF. Clock-calendar; 1200/9600 bps Packet jack; WIRES-II™ and Bluetooth capable. PA function using the built-in 8W audio amplifier and optional MLS-200-M10 speaker. Intercom feature to communicate with a fellow passenger, hands-free intercom is available with the optional Bluetooth adapter. Comes with mobile mounting bracket, angle adapter, spare fuses, 10 ft. separation cable, DC power cord, magnet, front panel bracket, speaker cable and hex wrench. +13.8 VDC at 8.5 amps. Dim: 4.4" w x 1.5" h x 7" d, 2.9 lbs ..... **\$379.99**  
**FTM-10SR** – Same except lower power, smaller & waterproof; 10W (2M), 7W (440 MHz).... **\$379.99**  
**Available Accessories:**  
AMK1 License plate bracket for YHAM-10, BLUETOOTHKIT Bluetooth kit w/BH-1/BU-1/CAB-1, COX2MM 6.6' coax cable for YHAM-10, CTM10 20' separation cable, MEKM10 Mic adapter jack, MH68A6J DTMF hand mic, MLS200M10 High power external speaker, MMBM10 Multi-angle stand bracket, MMBM11 Multi-angle handlebar bracket, YHAM10 2M/440 19.7" antenna

## DUAL BAND MOBILE

**FT-8800R** Dualband FM Mobile – Easy operation, outstanding receiver performance, and cross-band repeat capability, the 8800R is the new standard of comparison. Covers 144-148 & 430-450 MHz transmit with 108-520 & 700-999 MHz (cell blocked) wide coverage receive (Public safety, Commercial, Aircraft, and Government ranges); Power: 50W on 144 MHz, 35W on 430 MHz; Over 1000 memory channels, 512 "regular" on each band, five "Home," ten sets of band-edge memories on each band, and six "Hyper Memories" (complete sets of transceiver configurations); Independent 2-channel operation – dual RX with one band as the main TX/RX band; Separate volume and squelch controls for each band; Ability to configure 8800R for VHF-VHF or UHF-UHF operation; Large, easy-to-read OmniGlow™ LCD with 4 illumination levels; Cross-band repeat capability; One-touch band pattern; CTCSS/DCS (50/104 tone); User-program mic keys; Convenient remote-head mounting capability (optional kit required). Dim: 5.5" w x 1.6" h x 6.6" d; 2.2 lbs ..... **Free YSK-8900 \$374.99**

## QUAD BAND MOBILE

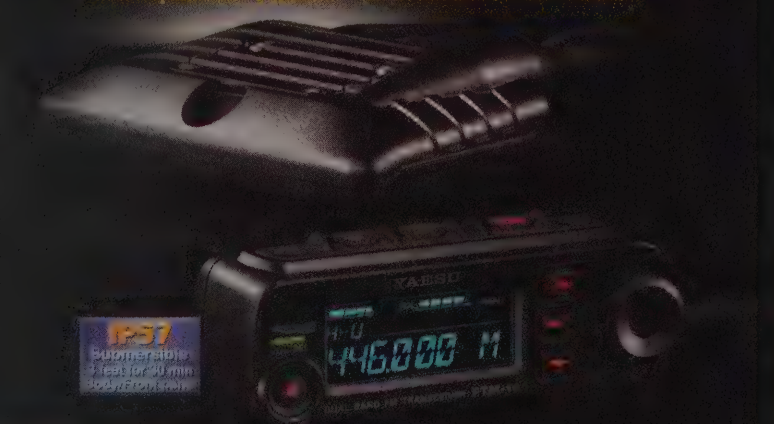
**FT-8900R** Quad Band FM Mobile – National or World-wide FM communications from a vehicle. Covers 28-29.7, 50-54, 144-148, 430-440 MHz transmit with 28-29.7, 50-54, 108-180, 320-480 and 700-985 MHz (cell blocked) receive. Power: 50W (10/6/2M), 35W (430 MHz); FM satellite operation; Over 800 memories; DTMF auto-dial memory; One-touch band-pattern "Hyper-Memory," allows set up and storage of complete transceiver configuration settings. Saves button pushing! CTCSS and DCS encode/decode; Smart-Search™ auto memory loading; Cross band repeat; Independent, 2-channel, dual receive and full duplex (separate volume and squelch controls, as well as S-meters); Built-in duplex; WIRES™ compatible; RF squelch; Auto repeater shift; ARTS™ capable; User-programmable microphone keys; Easy set up for FM satellite operation; Battery voltage meter; Time-out timer; Automatic power off; Large, easy-to-read LCD display; 1200/9600 bps packet; Thermal cooling fan; Remote head mounting capability. Dim: 5.5" w x 1.6" h x 6.6" d; 2.2 lbs ..... **Free YSK-8900 \$424.99**

**Available Accessories for FT-8800R & FT-8900R:**  
ADMS2H Programming software (8900R), ADMS2I Programming software (8800R); CT39 Packet cable, MLS100 Mobile speaker, MMB60 Quick release mobile mount, MMB62 Remote control panel bracket, T9021810 Extra DC cable, YSK8900 Remote separation kit



# A radio For Every Need - Yaesu VHF/UHF Mobiles

Imagine the Future of the Mobile Radio ...  
It's Now All Yours! ... YAESU FTM-10SR



**IP57**  
Submersible  
3 feet for 30 min  
Front Panel

**DUAL BAND**

10 W 2 m/70 cm\*  
Dual Band FM Mobile  
**FTM-10SR** \*70 cm 7 W

**Great New Features to Support  
Outdoor Motor Sports Activities  
Mobile Transceiver... Great Appearance ...  
Easy to Operate**



**DUAL BAND**

50 W 2 m/70 cm\*  
Dual Band FM Mobile  
**FTM-10R** \*70 cm 40 W

**Get "Back to Basics" with YAESU's FM Dual Band Mobile  
One-Touch Operation/Wide Receiver Coverage Included**



**DUAL BAND**

50 W 2 m/70 cm\* Dual Band FM Mobile  
**FT-7800R** \*70 cm 40 W



50 W 2 m Ultra Rugged VHF FM Mobile  
**FT-1802M** **2 m Band**



65 W 2 m Rugged FM Mobile  
**FT-2800M** **2 m Band**

**QUAD BAND  
DUAL RECEIVE**



50 W 10 m/6 m/2 m/70 cm\* Quad Band FM Mobile  
**FT-8900R** \*70 cm 35 W

**DUAL BAND  
DUAL RECEIVE**



50 W 2 m/70 cm\* Dual Band FM Mobile  
**FT-8800R** \*70 cm 35 W

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<http://www.vertexstandard.com>

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**YAESU**  
Choice of the World's top DV'ers™

Vertex Standard  
US Headquarters  
10900 Walker Street  
Cypress, CA 90630 (714)827-7600



# YAESU

## SINGLE BAND HTS

**VX-150** 2M Ultra-Rugged FM HT - Designed to perform under the most difficult conditions. Coverage: 144-148 MHz TX, 140-174 MHz RX. 209 memories; 5W output with standard battery; Three power output levels 5/2/0.5W; Wide/ Narrow deviation selection; Direct keypad input with 16 multi-function keys and two user-definable function keys; Priority monitoring; Dual watch; Smart-Search™ automatic memory loading; 7-Digit alpha memory labels; CTCSS & DCS encode/decode; 9

**Free Extra Battery!**



DTMF auto dial memo memory bank and preferential memory scanning; VFO search; Illuminated keypad & OmniGlow™ display; Auto repeater shift; ARTS™ (auto-range transponder system) function; 1750 Hz tone calling for European repeaters; Programmable menu; Die-cast aluminum case; High output speaker; Battery saver; Auto power off; MIL-STD 810D/E. Comes with FNB-64 7.2V 700mAh NiCad battery pack, SMA antenna, NC-72B wall charger, and belt clip. Dim: 4.2" h x 2.3" w x 1.1" d; 11.5 oz ..... **Free FNB-64 @ \$117.99**

### Available Accessories

ADMS1F Programming software, CN3 BNC-SMA adapter, CT27 Cloning cable, CT44 2-pin speaker mic adapter, CT53 Packet cable, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA25 6 "AA" cell battery case, FNBV57 7.2V 1100mAh battery, FNB64 7.2V 700mAh battery, LCC150/TT Leather case, LCC150S/TT Leather case/swivel, MH34B4B Speaker mic, MH37A4B Earpiece and mic, NC72B Extra wall charger, VAC400B One-hour rapid charger, VC25 VOX headset



VX-170 is 2M (shown)  
VX-177 is 440 MHz

**VX-170** 2 meter FM handheld - A rugged, compact, high-performance FM HT delivering up to 5 watts of RF power. Similar to the VX-150, but has a larger display, double the battery capacity and significantly higher audio output. Receive coverage is from 136 to 174 MHz and 200 alphanumeric memory channels that may be partitioned into as many as 10 memory groups. A 16 key backlit keypad for direct frequency entry and 4 column DTMF Paging. CTCSS/DCS

encode/decode and a Code Squelch (EPCS) that allows paging a particular station and only receive calls from that station if desired. Security password feature protects against unauthorized use. One-touch access to the Yaesu WIRES-II™ VOIP Internet Linking System. Comes with FNB-83 7.2V 1400mAh Ni-MH battery pack, flexible SMA antenna, NC-88B wall charger, and belt clip @ **\$119.99**  
**VX-177** - Same as VX-170 but 5W 440 instead of 2M. Dim: 2.4" w x 4.7" h x 1.3" d; 13.8 oz ..... **\$149.99**

### Available Accessories

ADMSVX170 Programming software for VX-170, ADMSVX177 Programming software for VX-177, CD26 Charger cradle, CMP460A Waterproof speaker/mic, CN3 BNC-SMA adapter, CT91 Microphone adapter, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA25 6 "AA" cell battery case, FNB83 7.2V 1400mAh NiMH battery, MH57A4B Speaker mic, VAC370 Rapid charger, VC24 VOX headset, VC27 Earpiece/mic



## DUAL BAND HTS

**FT-60R** 144/440 MHz FM Dualband HT - Wide RX coverage. Augmenting the transceive on 144/430 MHz, there is RX coverage of VHF/UHF TV, VHF AM aircraft, and more: 108-137, 137-520 and 700-999 MHz (cell blocked). Emergency NOAA weather access and alert with alert scan. Power: 5/2/0.5W; 1000+ memories with alphanumeric labels; Emergency Automatic ID (EAI) feature, for search-and-rescue operations. Split CTCSS/DCS and DCS encode-only capability; Enhanced Paging and Code Squelch (EPCS), that allows you to page a particular station and only receive calls from that station, if desired; 9 DTMF auto-dialer memories; WIRES™ access key; Auto repeater shift; Auto-Range Transponder System (ARTS™); NiMH long-life battery and charger. Rugged die-cast case, water-resistant; Comes with FNB-83 7.2V 1400mAh NiMH battery pack, NC-88B overnight charger, flexible SMA antenna, and belt clip.

Dim: 2.3" w x 4.3" h x 1.2" d; 13 oz ..... **\$189.99**

### Available Accessories

ADMS1J Windows software, CN3 BNC-SMA adapter, CT27 Cloning cable/CT27A, CT44 2-pin speaker/mic adapter, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA25 6 AA cell battery case, FNB83 7.2V 1400mAh NiMH battery, MH34B4B Speaker mic, MH37A4B Earpiece and mic, VAC370 Rapid charger, VC25 VOX headset



**VX-3R** Ultra Compact 2m/440MHz Dual Band FM Handheld - Covers 144-148 MHz and 430-450 MHz with wideband receive from 500 kHz to 999 MHz (less cellular). Includes 1.8 to 30 MHz with AM/FM/NF/WFM modes so you can hear the AM, shortwave and FM broadcast bands, TV audio, aircraft and public service channels. 1000 alphanumeric channel memory system with special memory banks for Weather, Broadcast, VHF Marine and Shortwave

Broadcast. The sub-RX feature allows listening to AM or FM radio stations while monitoring a HAM frequency which you can talk on instantly by hitting the PTT button. Power output with the supplied high-capacity super-thin 1000 mA hour Lithium-Ion battery is 1.5W (VHF) and 1W (UHF). Using the optional EDC-21 DC adapter output increases to 3W (VHF) and 2W (UHF). Rugged aluminum die-cast chassis. Built-in features include: CTCSS/DCS Encode/Decode with split tone capability; DTMF; Messaging; AM Band Bar Antenna; WIRES™-II Internet Key; Automatic In-Range Transponder (ARTS); FM Stereo Earphone Jack; CW Learning and Training; Mechanical Dial Lock; Internal temperature sensor. Comes with the FNB-82LI lithium-ion battery and NC-85B charger, SMA flexible antenna, belt clip, and wrist strap. Dim: 1.9" w x 3.2" h x 0.9" d, 4.6 oz ..... **\$179.99**

### Available Accessories:

CN3 BNC-SMA adapter, CSC92 Soft case, CT27 Cloning cable, CT44 Two pin mic adapter (for older Yaesu mics), EDC21 DC cigarette lighter cable with plug, FBA37 Cell Holder (3 x AA), FNB82LI Lithium Ion Battery Pack (3.7V 1000 mAh), MH34B4B Speaker mic, MH37A4B Compact lapel mic with earphone, VC25 VOX/PTT headset



## TRI-BAND HT

**VX-6R** 144/222/440 MHz Triple band Submersible HT - 5W power on 144/440 MHz and 1.5W on 220 MHz; Wide receive coverage: 504 kHz - 998.990 MHz (cell blocked); 900 memory channels with 24 memory banks and two "Special Memory" groups; New "Wake-Up" feature checks for activity when the radio is turned off! Emergency

Automatic ID (EAI) system; Four output power settings: 5/2.5/1/0.3W on 144/440 MHz, 1.5/1/0.5/0.2W on 222 MHz; One-touch Direct Memory Recall (DMR) access to most important memory channels; Internal temperature sensor; WIRES™ internet-linking; The optional SU-1 barometric pressure sensor unit permits monitoring of sudden weather changes by monitoring atmospheric pressure. Comes with FNB-80LI 7.4V 1400mAh Li-Ion battery pack, NC-72B 5 hour battery charger, flexible SMA antenna, belt clip, hand strap. Dim: 2.3" w x 3.5" h x 1.1" d; 9.5 oz ..... **\$249.99**

### Available Accessories

ADMSVX6 Programming software, CD15A Charger stand for NC72B, CMP460A Waterproof speaker/mic, CN3 BNC-SMA adapter, CSC91 Soft case, CT91 Mic adapter, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA23 2 AA cell battery case, FNB80LI 7.4V 1300mAh lithium-ion, MH57A4B Speaker/mic, NC72B Extra wall charger, SU1 Altitude/barometric pressure sensor, VC24 VOX headset, VC27 Earpiece/mic



VX-7R is silver (shown)  
VX-7RB is black

## QUAD-BAND HT

**VX-7R** Ultra-Rugged, Submersible Magnesium FM - Quad-band HT With a full 5W output on 50, 144 and 440 MHz FM, 222 MHz FM band at 300mW. The rugged design allows the unit to be submersible at 3 ft. for 1/2 hour, and meets JIS-7 specification. 500 kHz to 999 MHz continuous receive (cellular blocked); Over 900 memories including 40 memory scan band limit, and 10 weather; Built-in

CTCSS/DCS enc/decode; "Split Tone" capability; Auto-Range Transponder System; User-changeable icons and fonts; Full-color strobe LED; Spectrum scope display; 24-hour clock; On/Off timers; WIRES™ internet-linking; Comes with FNB-80LI 7.4V 1300mAh lith-ion battery, NC-72B battery charger, dual section belt clip. Black or silver. Dim: 2.4" w x 3.5" h x 1.1" d; 9.2 oz.

**VX-7RB** Same but black case.... each @ **\$294.99**

### Available Accessories

ADMS1G Programming software, CD15A Rapid charger for NC72B, CMP460A Waterproof speaker/mic, CN3 BNC-SMA adapter, CSC88 Soft case, CT91 Mic. adapter, EDC5B DC adapter/filter, EDC6 DC adapter; plug/wire only, FBA23 2 "AA" cell battery case, FNB80LI 7.4V 1300mAh lithium-ion, MH57A4B Speaker/mic, NC72B Extra wall charger, Q3000185 Replacement duck, SU1 Altitude/barometric pressure sensor, VC24 VOX headset, VC27 Earpiece/mic

@ Price after instant coupon, coupons and freebies may expire 10/31/07. Please call/web for current price and promotions.



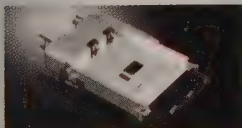
# YAESU PRESENTS THE THIRD GENERATION ULTRA-COMPACT HAND-HELD FM TRANSCEIVER THE VX-3R !

The new ultra-compact HT, VX-3R, is loaded with new convenience features. Enjoy stereo FM broadcast reception, and better AM broadcast band reception with the internal bar antenna. Operate with "AA" batteries using the optional FBA-37\* battery case. Yaesu again leads the World with our latest compact HT!

\*Optional 3x "AA" Cell Battery Case FBA-37 & batteries not supplied.

**Ultra-Compact (1.9" x 3.2" x 0.9") and  
Light Weight! (4.6 oz)**

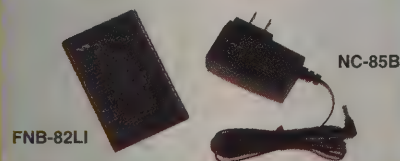
**Rugged Aluminum Die-cast Chassis**



**1.5 W Output w/Internal Battery  
(70cm : 1W)**

**3W Output w/External DC (70cm : 2W)**

**High-Capacity Super-thin tiny  
Lithium-ion Battery with Charger(supplied)**



**The optional FBA-37 permits convenient  
replaceable AA battery operation ("AA" x 3)**

**Special Memory Banks :  
WX Broadcast, VHF Marine,  
Short-wave Broadcast Stations**

**Huge 1286-channel memory capacity  
24 memory banks x 100 ch**

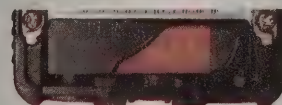
**Wide-band receiver coverage  
(Cellular-band blocked)**

**ULTRA COMPACT 2 m/70 cm  
DUAL BAND FM HANDHELD**

## VX-3R



**Internal Bar Antenna for AM broadcast band**



(Not actual : Cut-out image photo)

**Designated earphone jack for  
FM broadcast band reception**



**Sub RX function : Listen to your favorite AM  
or FM Stereo Broadcast Station and monitor  
the Amateur Band at the same time**

**New mechanical Dial Lock function**



**CW Learning and Training Feature**

**EAI (Emergency Automatic ID) function**

**WiRES-II® Internet Key**

**CW Learning and Training feature**

**Short Text Messaging function**

**Actual Size**

For the latest Yaesu news, visit us on the Internet:  
<http://www.vertexstandard.com>

Specifications subject to change without notice. Some accessories and/or options may not be available in all areas. Frequency coverage may differ in some countries. Check with your local Yaesu dealer for specific details.

**YAESU**  
Choice of the World's Top DXers®

Vertex Standard  
US Headquarters  
10900 Walker Street  
Cypress, CA 90630 (714)827-7600



# A radio For Every Need - Yaesu VHF/UHF Handhelds

## Conquer the Elements!



**IPX7**  
Submersible  
3 feet (1m) for 30 min.

**2 m / 70 cm  
Dual Band**

5 W Heavy Duty Submersible  
2 m/70 cm Dual Band FM Hand held (220 MHz: 1.5 W)  
**VX-6R**

## Tougher than Tough!



(8 key)

(16 key)

**IPX7**  
Submersible  
3 feet (1m) for 30 min.

5 W Heavy Duty, Submersible  
2 m FM Mono Band Hand Helds  
**VX-120 VX-170**  
(8 key Version) (16 Key Version)

70 cm FM Mono Band Hand Helds  
**VX-127 VX-177**  
(8 key Version) (16 key Version)

**2 m  
Mono Band  
70 cm  
Mono Band**



**IPX7**  
Submersible  
3 feet (1m) for 30 min.

5 W Ultra-Rugged, Submersible  
6 m/2 m/70 cm Tri-Band  
FM Hand held  
**VX-7R/VX-7RB**

**6 m / 2 m / 70 cm  
Tri-Band**



5 W Heavy Duty  
2 m/70 cm Dual Band FM Hand held  
**FT-60R**

**2 m / 70 cm  
Dual Band**



Ultra-Rugged 5 W Full Featured  
2 m FM Hand helds  
**VX-150/VX-110**

**2 m  
Mono Band**

**YAESU**  
Choice of the World's top DX'ers<sup>SM</sup>

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US Headquarters  
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**SINGLE BAND MOBILES**

MANUFACTURER	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ALINCO	ICOM	ICOM	ICOM	KENWOOD	MFJ	MFJ	MFJ	MFJ	YAESU	YAESU
MODEL	DR-03T	DR-06T	DR-M06TH	DR-135TMKII, TPKMKII	DR-235TMKIII	DR-435TMKIII	IC-2200H	IC-V8000	ID-1	TM-271A	8621	8621Y2	9402X	9406X	FT-1802M	FT-2800M		
TX RANGE (MHz)	28-29.695	50-53.995	50-54	144-148	222-224.995	430-449.995	144-148	144-148	1240-1300	144-148	145.01	144.39	144-144.3	50-50.3	144-148	144-148		
RX RANGE (MHz)	28.29.695	50-53.995	40-60 <sup>(1)</sup>	118-174	216-279.995	350-511.995	118-174	136-174	1240-1300	136-174	145.01	144.39	144-144.3	50.3	136-174	137-174		
AIRCRAFT RX	NO	NO	NO	YES	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
POWER OUTPUT	10/5/1W	50/20/5W	20/1W	50/10/5W	25/10/5W	35/10/5W	65/25/10W	75/25/10/5W	10/1W	60/25W	5W	5W	7W SSB	10W SSB	50/25/10/5W	65/25/10/5W		
TTP MICROPHONE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	YES	YES		
tone ENCODE	YES	YES	YES	YES	YES	YES	YES	YES/DCS	YES	YES	NO	NO	NO	NO	YES	YES		
tone DECODE	YES	YES	EJ-20U	YES	YES	YES	YES	YES/DCS	YES/DTCs	YES/DCS	NO	NO	NO	NO	YES/DCS	YES/DCS		
MEMORIES	100	100	100	100	100	100	207	207	100	200	0	0	0	0	221	221		
ALPHANUMERIC	YES	NO	NO	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	YES	YES		
PC PROGRAMMABLE	TBD	TBD	NO	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	YES	YES		
13.8V DC@	3A	11A	5A	11A	8A	10A	15A	15A	7A	13A	>1A	>1A	2A	3A	10A	10A		
ANTENNA CONNECTOR	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	N	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239	SO-239		
HEIGHT (IN)	1.57	1.57	1.6	1.6	1.6	1.6	1.6	2	6	1.7	1.5	1.5	2.5	2.5	1.6	2		
WIDTH (IN)	5.85	5.85	5.5	5.6	5.6	5.6	5.5	5.9	2	6.3	5	5	6.5	6.5	5.6	6.3		
DEPTH (IN)	6.83	6.83	4.5	6.9	6.9	6.9	7.1	5.9	2	5.4	5	5	6	6	5.8	7.3		
WEIGHT (LBS)	2.21	2.21	1.5	2.3	2.3	2.3	2.75	2.22	2.6	2.6	0.8	0.8	2	2	2.6	2		

**MULTI-BAND MOBILES**

MANUFACTURER		ALINCO		ALINCO		ICOM		ICOM		ICOM		KENWOOD		KENWOOD		KENWOOD		YAesu		YAesu		YAesu	
MODEL	TX RANGE (Mhz) <sup>(6)</sup>	DR-920T	144-148 430-450	DR-35T	144-148 430-450	ID-800	144-148 420-450	IC-208H	144-148 440-450	IC-2820H	144-148 430-450	TM-V71A	144-148 430-450	TM-D700A <sup>(4)</sup>	144-148 438-450	TM-D710A <sup>(4)</sup>	144-148 438-450	FTM-10SR	144-148 430-450	FT-7800R	144-148 430-450	FT-8800R	144-148 430-450
RX RANGE (Mhz) <sup>(6)</sup>		87.5-108 (WFM)	87.5-108	118-173	118-173 <sup>(6)</sup>	230-549	230-550	118-549.99 (LEFT)	118-174 <sup>(6)</sup>	118-173.99, 375-549.99	118-549.99 (LEFT)	118-154 (A BAND)	118-470 (A BAND) <sup>(2)</sup>	118-470 (A BAND) <sup>(2)</sup>	118-470 (A BAND) <sup>(2)</sup>	118-470 (A BAND) <sup>(2)</sup>	118-470 (A BAND) <sup>(2)</sup>	0.5-1.8	0.5-1.8	108-520	108-520	28-29.7, 50-54	28-29.7, 50-54
SINGLE OR DUAL RX		DUAL	DUAL	SINGLE	SINGLE	SINGLE	SINGLE	DUAL	SINGLE	DUAL	DUAL	DUAL	DUAL	DUAL	DUAL	DUAL	DUAL	DUAL	SINGLE	DUAL	DUAL	DUAL	430-450
POWER (2M)		50/35/10/5W	50/25/5W	55/15/5W	50/15/5W	50/15/5W	50/15/5W	50/15/5W	50/15/5W	50/15/5W	50/15/5W	50/10/5W	50/10/5W	50/10/5W	50/10/5W	50/10/5W	50/10/5W	10/30.5W	10/30.5W	50/20/10/5W	50/20/10/5W	50W <sup>(3)</sup>	50W <sup>(3)</sup>
POWER (440 Mhz)		35/10/5W	35/20/5W	50/15/5W	50/15/5W	50/15/5W	50/15/5W	50/15/5W	50/15/5W	50/15/5W	50/15/5W	35/10/5W	35/10/5W	35/10/5W	35/10/5W	35/10/5W	35/10/5W	7/30.5W	7/30.5W	40/20/10/5W	40/20/10/5W	35W	35W
MEMORIES		200	200	500	500	500	500	522	1000	1000	522	200	200	200	200	1000	1000	500	500	1000	1000	800	800
TONE ENCODE		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
TONE DECODE		DCS	YES	DCS	YES	DCS	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	DCS	DCS	DCS	DCS	DCS
DUPLEXER		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
CROSS-BAND REPEAT		NO	YES	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES
ALPHANUMERIC		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
PC PROGRAMMABLE		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
9600B COMPATIBLE		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SEPARABLE		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
HEIGHT (IN) (HEAD)		5.51	5.5	5.6	1.6	1.6	1.6	1.65 (1.25)	1.7	1.65 (1.25)	1.65 (1.25)	1.6 (2.4)	1.6 (2.4)	1.6 (2.4)	1.6 (2.4)	1.6 (2.4)	1.6 (2.4)	1.1 (1.5)	1.1 (1.5)	1.6	1.6	1.6	1.6
WIDTH (IN)		1.57	1.6	1.6	5.6	5.6	5.6	5.9 (5.9)	5.5	5.5	5.5	5.5 (5.5)	5.5 (5.5)	5.5 (5.5)	5.5 (5.5)	5.5 (5.5)	5.5 (5.5)	5.1 (4.4)	5.1 (4.4)	5.5	5.5	5.5	5.5
DEPTH (IN)		7.28	7.3	7.3	7.3	7.3	7.3	7.4 (2.6)	7.1	7.1	7.1	7.7 (1.3)	7.7 (1.3)	7.7 (1.3)	7.7 (1.3)	7.7 (1.3)	7.7 (1.3)	3.2 (1.6)	3.2 (1.6)	6.6	6.6	6.6	6.6
WEIGHT (LBS)		2.2	2.2	2.85	2.7	2.7	2.7	3.3 (0.46)	3.3	3.3	3.3	2.6 (0.4)	2.6 (0.4)	2.6 (0.4)	2.6 (0.4)	2.6 (0.4)	2.6 (0.4)	2.9	2.9	2.2	2.2	2.2	2.2

(1) Requires keyboard modification

(5) AM aircraft receive mode

(2) There are gaps in non-voice or data portions in certain bands

(3) FT-8900R includes 10M/6M as well  
All ratings are cellular, blocked



**All radios are cell blocked**

[illegible]



# MFJ Switching Power Supplies

Power your HF transceiver, 6 meter/2 meter/440 MHz Mobile/Base and accessories with these  
25 or 45 Amp MFJ MightyLite™ Switching Power Supplies!  
No RF hash • Super lightweight • Super small • Volt/Amp Meters



4125V

**Small** – *MightyLites™* are so small you can carry them in the palm of your hand! Take them with you anywhere – no more hauling around heavy, bulky power supplies.

**Lightweight** – The 25 Amp *MightyLites™* weigh in at under 4 lbs. which is 4 to 5 times lighter than an equivalent conventional design power supply. The 45 Amp model is just 5.5 pounds!

**No RF Hash** – Some switching power supplies generate objectionable RF hash in your transmitted and received signal. But, these babies are clean!

**Low Ripple and Highly Regulated** – Less than 35 mV peak-to-peak ripple and better than 1.5% regulation under full load.

**Fully Protected** – You won't burn up these power supplies! They are fully protected with overvoltage and overcurrent protection circuits.



4225MV

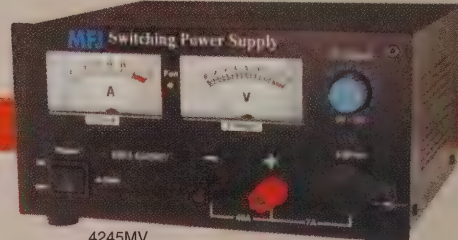
**Worldwide Versatility** – Switchable AC input voltage handles 85-135 or 170-260VAC.

**Mighty Features** – Model 4225MV and 4245MV feature a front-panel voltage control which varies output voltage from 9 to 15VDC. Front-panel mounted 5-way heavy-duty binding posts and cigarette lighter socket for mobile accessories. The 4245MV has two sets of quick-connects on the rear for accessories. Dual 3 in. illuminated meters monitor load voltage and current. Internal fan.

**4125 (left)** – Basic, no metering. 25 Amps maximum or 22 Amps continuous operation. Dim: 5.5" w x 2.5" h x 2.5" d; 3.5 lbs ..... **\$109.99**

**4225MV (center)** – 25 Amps max. or 22 Amps continuous. Dim: 5.75" w x 4.5" h x 6" d; 3.7 lbs **\$149.99**

**4245MV (right)** – 45 Amps max. or 40 amps continuous. Dim: 7.5" w x 4.75" h x 9" d; 5.5 lbs. **\$199.99**



4245MV



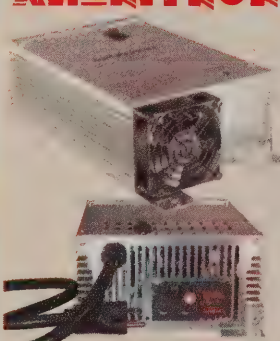
4103

4110

**4103 Compact Switching Power Supply** – For the Yaesu FT-817, other QRP rigs and MFJ accessories. 100-240 VAC input, 13.8 VDC @ 2.89 Amps output. Fully protected for over-voltage, over-current, and over-temperature. Includes a DC output cable with a 2.1 mm plug, and FT-817 adapter cable. Dim: 4-1/8 x 2-5/8 x 1-3/8 in.; 10 oz ..... **\$39.99**

**4110 Compact AC Power supply** – Includes a 2.9 Amp AC wall adapter and 13.8VDC Power Module. Perfect for MFJ's QRP transceivers ..... **\$59.99**

## 75 Amp Switching Power Supply



**SPS-75 Switching Power Supply** – Perfect for 500W solid-state amplifiers like the Ameritron ALS-500M, SGC SG-500 and other high current applications. It gives **75 Amps** output continuously with less than 100mV peak-to-peak ripple under 75 Amp full load and regulation better than 1.5%. Has reverse polarity protection, brown out input protection, over-current and over-temperature protection. A quiet thermal-controlled fan keeps it cool. **Output Boost** steps up output from 13.8 to 14.2 VDC to compensate for power cable and connector loss. Input 108-132 VAC, 50/60 Hz (11 Amps). Can be used to conveniently charge vehicle and emergency back-up batteries. Dim: 6.5" w x 3.5" h x 10" d; lightweight, 7.8 lbs ..... **\$359.99**

## 35/30 Amp Adjustable DC Power Supply

- Conventional Design
- Massive 19.2 lb. transformer
- Adjustable 1-14 VDC
- Dual front panel meters

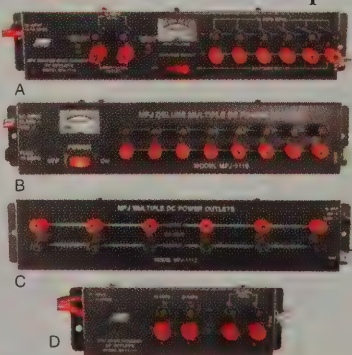


**4035MV Super Heavy Duty**  
Excellent for powering all types of amateur transceivers and accessories. Easily delivers 30 Amps continuous (35 Amps maximum) with regulation better than 1% and ripple voltage less than 30mV. Over-voltage, fold back and short circuit protected and variable-speed fan cooled. Plenty of connections – 3 sets of output terminals including a pair of Heavy Duty, 5-way binding posts for transceivers, 2 pairs of quick-connects for accessories and a cigarette lighter socket for mobile accessories. Dim: 9-1/2" w x 6" h x 9-3/4" d, 20.6 lbs ..... **\$149.99**

All MFJ products come with MFJ's **No Matter What™** One-year Limited Warranty. (not including kits, books or software)

**Gift Certificates**  
available from all  
**AES** locations & online!

## MFJ High Current DC Multi-Outlet Strips



Distributes high current 12V DC power for radios and accessories from your station's main DC power source. Keeps everything neat, organized and safe. Prevents fire hazards by keeping wires from tangling and shorting out. All outlets fused, switched and RF bypassed.

**1118 (A) Deluxe Multiple DC Power Strip** – Distribute 12V DC to (2) radios and (6) or more accessories. Provides (2) pairs of heavy-duty 30 Amp, 5-way binding posts, all fused and RF bypassed, and (6) pairs of 15 Amp 5-way binding posts for accessories. Master fuse, on-off switch with power LED, built-in 25V DC voltmeter, 6 ft. 8 gauge cable. Dim: 12.5" w x 2.75" h x 2.5" d ..... **\$79.99**

**1116 (B)** – Like the 1118 but without 30 Amp posts ..... **\$54.99**

**1112 (C)** – Similar to the 1116 but without on-off switch, power LED, voltmeter or fuse. Dim: 12.5" w x 2.75" h x 2.5" d ..... **\$39.99**

**1117 (D)** – Like the 1118 but without meter, power LED or on-off switch. Powers up to (4) radios with (2) 35 Amp single posts and (1) 35 Amp dual post. Dim: 8" w x 2" h x 3" d ..... **\$59.99**



The Low Cost alternative to "matching" Power Supplies



105-125V AC input, 13.8V DC output; Internally adjustable from 11-15V; Electronic regulation with fold-back current limiting and crowbar overvoltage protection; Heavy-duty heat sink; Three-wire cord; One-year warranty; Made in U.S.A.

Separate Volt and Amp meters on RS-20M, 35M, 50M and 70M. Separate Volt and Amp meters, plus Voltage Adjustment (2-15V DC) on VS-20ML, VS-35M and VS-50M. The RM-35M, RM-50M and RM-60M are Rack Mount models, plus Separate Meters.

Model	Cont. Amps	ICS Amps	Size (in.) HWD	Shipping weight	Price
RS-7A	5	7	3.75 x 6.5 x 9	9	\$59.99
RS-10A	7.5	10	4 x 7.5 x 10.75	11	69.99
RS-12A	9	12	4.5 x 8 x 9	13	79.99
RS-20A	16	20	5 x 9 x 10.5	18	99.99
RS-35A	25	35	5 x 11 x 11	27	149.99
RS-35A/220V	Same as RS-35A but 220V input			C/O	139.99
RS-50A	37	50	6 x 13.75 x 12	46	219.99
RS-70A	57	70	6 x 13.75 x 12	48	279.99

With separate Volt & Amp meters

RS-20M	16	20	5 x 9 x 10.5	18	119.99
RS-35M	25	35	5 x 11 x 11	27	169.99
RS-50M	37	50	6 x 13.75 x 11	46	239.99
RS-70M	57	70	6 x 13.75 x 12	48	299.99

Adjustable output; separate Volt & Amp meters

VS-20ML	16	20	5 x 9 x 10.5	20	139.99
VS-35M	25	35	5 x 11 x 11	29	199.99
VS-50M	37	50	6 x 13.75 x 11	46	259.99

Rack mount; separate Volt & Amp meters

RM-35M	25	35	5.25 x 19 x 12	38	259.99
RM-50M	37	50	5.25 x 19 x 12	50	299.99
RM-60M	50	55	7 x 19 x 12	60	389.99

## POWER SUPPLIES with added Features

**RS-4L** - Has a built-in cigarette lighter receptacle in the front panel. 13VDC @ 4A peak, 3 Amps continuous. Dim: 3.5"h x 6.5"w x 4.25"d; 6 lbs ..... **\$49.99**

**RS-12S** - Has a built-in front mounted speaker. Rated 13VDC @ 12A peak, 9 Amps continuous. Dim: 4.5"h x 8"w x 10.75"d; 13 lbs.... **C/O \$79.99**

## Small & Lightweight SWITCHING POWER SUPPLIES

**SS-25** - 12V DC, rated 20A continuous, 25A ICS. Dim: 3"h x 7"w x 9.5"d; 4.2 lbs... **\$119.99**

**SS-25M** - Same as above but with Volt and Amp meters..... **\$139.99**

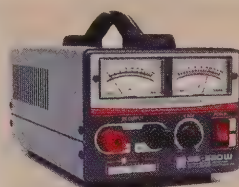
**SS-30** - 12V DC, rated 25 Amps cont, 30 Amps ICS. Dim: 3.75"h x 7"w x 9.5"d; 4.5 lbs... **\$129.99**

**SS-30M** Same with Volt/Amp meters.... **\$149.99**

## POWER INVERTERS

**N2412-12** 28V Aircraft - Converts 22-32V DC input to 13.8V DC output @ 10 amps. Eliminates tapping into a 28V battery for 12V..... **\$59.99**

**N2412-24** - Same as above, rated at 20A **\$89.99**



SS-330W



## SWITCHING POWER SUPPLIES



SS-505

**SS-330W** Regulated, Variable Switching Power Supply - Provides 5 to 15 VDC at 30 amps continuous. Features: Dual meters indicate Volts/Amps; Binding posts on the front panel, Green power/Red protection LEDs; Detachable AC cord; Carrying handle; Built-in fan. Dim: 5.2"w x 4"h x 10.5"d; 4.3 lbs ..... **\$169.99**

**SS-505** Regulated, Variable Switching Power Supply - Recommended for those higher powered rigs like the 200W Kenwood TS-480HX that requires two 20-amp supplies or one bigger one weighing nearly 50 lbs. Provides 5 to 15 VDC at 50 amps continuous (55A max). Features: Dual purpose Amp/Voltage meter; Binding posts on the rear panel; Low amperage spring loaded terminals and cigarette lighter jack on the front panel; Green power/Red Protection LEDs; Carrying handle; Built-in automatic fan. Dim: 9"w x 5"h x 12.5"d, 8.4 lbs.....**\$399.99**



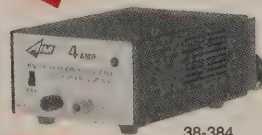
## SWITCHING POWER SUPPLY



**GZV-4000** Switching Mode DC Power Supply with Built-in Speaker - 120V AC input; Variable output 5-15V DC with convenient center detent at 13.5V DC; 40 Amps continuous rating @ 100% duty cycle; Over temperature, overload, short-circuit protection with current foldback at approximately 42 Amps; Overload indicator; Selectable monitoring of voltage and current; DC terminals on rear, cigarette lighter jack on front; Filtered AC line. Dim: 8.25"d x 13"w x 4.5"h; 8 lbs..... **\$179.99**



## SMALL POWER SUPPLIES



38-384



38-305

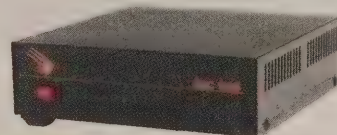
### 38-384

**Light-duty DC Supply** - Input: 115 V AC; Output: 13.8V DC regulated @ 4 Amps; Front panel binding posts; LED indicator, fused protection. Dim: 7.75"d x 4.75"w x 3"h; 5.5 lbs **\$54.99**

### 38-305

**AC Adapter** - Provides multiple low-voltage DC to operate various battery powered equipment requiring 3, 4.5, 6, 7.5, 9 or 12V DC with a 500ma. max. current rating. Multiple application plugs and 9V snaps fit most devices..... **\$12.99**

## SAMLEX AMERICA SWITCHING POWER SUPPLIES



**SEC-1223** 23A Switching Power Supply - The perfect lightweight companion for 100 Watt-Class transceivers. Input: 110-120VAC; Output: 13.8VDC @ 23 Amps; UL approved. Also works on 200-240VAC input with a simple jumper change but UL approval is voided. Safety features: Current limiting; Short circuit protection; Overvoltage protection; Quiet temperature controlled cooling fan. Heavy-duty rear terminals, anodized black chassis and powder coat black steel cover. 3-year warranty. Dim: 7"w x 2.1"h x 7.5"d; 3.3 lbs..... **\$99.99**

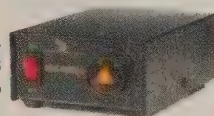


**SEC-1235M** - Similar to 1223 above, but rated 30A continuous and 35A maximum. Separate Volt and Amp meters on front panel. Dim: 10.4"w x 2.1"h x 7.1"d; 5 lbs ..... **\$139.99**

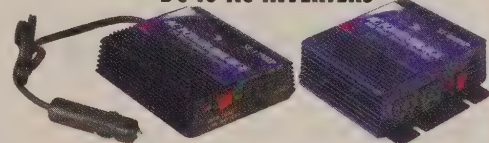
**SEC-1235** - Same as to 1235M above, but without Volt and Amp meters ..... **\$129.99**

### SPS-1204UL

**Switching Supply** - Small and lightweight. Provides highly regulated power to a cigar lighter socket on the front panel and wire terminals on rear. Input: 110-125V AC, 13.8V DC output @ 3.5 Amps. Over-voltage protection and current limiting, illuminated on/off switch, UL and cUL approved. Dim: 2"h x 4"w x 6.3"d; 2 lbs..... **\$29.99**



## DC to AC INVERTERS



**SI-175HP** (A) 175W 12VDC-110VAC Inverter Useful anywhere when 110VAC isn't available - boats, RVs, emergency, etc. Uses high efficiency switching mode design with modified sine wave output voltage and low idle power draw (<0.05A). Overload protection, low battery alarm and shut down. Cigar lighter; 10-15VDC input; 115 Volts RMS output; 175W (continuous), 350W (surge); Dim: 1.6"h x 4.7"w x 5.4"d; 1.8 lbs..... **\$29.99**

**SI-400HP** 400W 12VDC to 115 VAC Inverter (B) Similar to the SI-175HP, but higher 400W rating. Cigar lighter plug input connector and battery clamp included; Input Voltage: 10-15 VDC input; 115V RMS output; 400W (continuous), 800W (surge). Dim: 2.4"h x 6.3"w x 6.3"d; 2.9 lbs..... **\$49.99**

## CELL PHONE CHARGER

**FCP-1000** 12V-1000mA Adapter/Charger - For operating or charging cell phones. Wall mount with cigar lighter receptacle; 110-120VAC input; 12VDC output; 1000mA, 19W output current. Dim: 2.25"h x 2.75"w x 4.25"d; 1 lb ..... **\$7.99**





## POWER LINE SURGE SUPPRESSORS



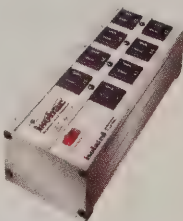
**SUPER-7** – For spike suppression and noise filtering. Provides 18,000 amp surge suppression, and RFI/ EMI filtering. Seven outlets, 7-foot cord, three diagnostic LED indicators ..... **\$19.99**

**SUPER-7+TEL** – Same, but with 6 outlets and fax/modem protection for modular jacks.. **\$29.99**

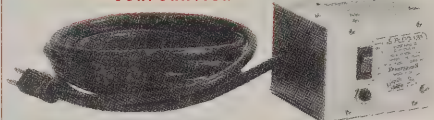
### ISOBAR-8 ULTRA

#### Premium Surge

Suppressor – Rugged all metal housing won't break or burn. Isolated filter banks eliminate interference between connected equipment. Massive 1,200 joule, 96,000 amp spike suppression; Diagnostic alarm system indicates wiring faults, protection circuitry and power line status; 8 outlets, extra long 12 ft. cord..... **\$79.99**



## PolyPhaser<sup>®</sup> CORPORATION

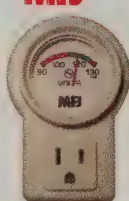


**Power Line Extension Protector** – In-line, multi-stage protectors provide multi-strike line protection, filtering and proper grounding for a 120V AC line. Two grounded outlets, power switch, and circuit breaker. Heavy duty, all aluminum grounded enclosure; 4.75 in. wide.

**PLDO-120US15A**  
15 ft. cord; 120V/15A..... **\$169.99**

**PLDO-120US20A**  
6 ft. cord; 120V/20A..... **\$199.99**

## MFJ AC LINE VOLTAGE MONITOR



**850B** – Plug into the nearest wall outlet and monitor AC line voltage. The color coded scale lets you read from 95–135V AC. There's a built-in AC socket so you still have the outlet available. Dim: 2.75" w x 4" h x 1.1" d..... **\$24.99**

## INTELLIGENT CHARGER

**633** – Charges 2 or 4 NiCad and NiMH AAA, AA, C, D (charging 2 at a time) and 1 or 2 9V cells. Ultra-fast, safe constant pulse current charging; IC detects both +DV and -DV, and monitors the voltage level during charging. Discharge Mode deep conditions to correct memory, and can rescue weak or dead batteries. Process ends with a final trickle charge. 120 VAC or 12 VDC ..... **\$29.99**



We accept I.M.P.A.C.® Government Credit Cards

## POWER PLUGS/ADAPTERS



P-212



P-212B

P-12R

**P-212** 2-Outlet Cigarette Plug Adapter – Allows use of two 12V accessories from 1 outlet ..... **\$4.99**

**P-212B** Dual Cigarette Socket – Enables two 12 volt accessories to be used from one outlet, comes with replaceable 15 amp fuse ..... **\$8.99**

**P-12R** 2-Contact Cigarette Plug – Solder type with strain relief and grip end..... **\$2.29**

**P-12V** Cigarette Plug – Cigarette lighter plug with connecting leads ..... **\$2.29**

**P-12X** Cigarette Lighter Plug – Easy to use solderless plug. Wires crimp to terminals ..... **\$1.69**



NCG<sup>™</sup>  
COMPANY



## Power Pocket

Portable Power for emergencies, hamfests, hiking, etc. The 12V @ 2 Amp/hour sealed lead-acid rechargeable battery provides up to 6x longer talk time than standard packs. Recharges completely in 6 to 8 hours with supplied charger. Partial discharges can be recharged to 100% without memory effect. Radio conveniently plugs into included female adapter socket. Includes a compact carrying case with belt loop and shoulder strap.

Dim: 3.5" w x 1" d x 6.5" h; weight 30 oz. **\$66.99**

## RECHARGEABLE BATTERIES



MAHA  
MH-R-AA4

MAHA  
AAA-T

MAHA  
MH-9.6V200

MFJ  
92AA01

Maximum life • Memory-free operation  
Rechargeable hundreds of times  
Excellent for high current applications

### MAHA Rechargeables

**MH-R-AA4** – 4 pack of 1.2V 2700mAh rechargeable AA NiMH batteries in plastic case..... **\$14.99**

**AAA-T** – 1.2V, 650mAh AAA NiMH..... each **\$2.99**

**MH-96V200** – 9.6V, 200mAh NiMH .. ea. **\$12.99**

### MFJ Rechargeables

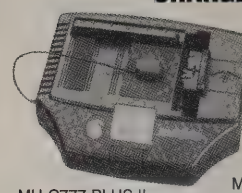
**92AA01** – NiMH AA's .....each **\$2.99**

**92AA10** – Same as above ..... 10-pack **\$24.99**

## REPLACEMENT HT BATTERY PACKS

MAHA's replacement battery packs can increase your handhelds performance up to two times. Refer to the Price Guide under MAHA for a list of packs for Yaesu, Icom, Kenwood, and Standard radios.

## CHARGERS



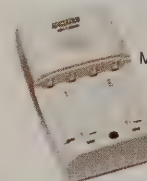
MH-C777 PLUS II



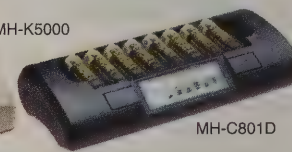
MH-C888

**MH-C888** Universal Drop-In Rapid Charger and Conditioner – Incorporates special FLEX negative pulse feature to prevent crystallization when charging 4.8-12V NiMH/NiCad battery packs. Deep-conditioning feature does three consecutive charge and discharges before final charge. Built-in switching AC power supply and 12V cord ..... **\$59.99**

**MH-C777 PLUS II** Smart Universal Charger and Analyzer/Conditioner – Charges most NiMH, NiCad, Li-ion and Li-polymer battery packs. Built-in circuitry with LCD status automatically senses battery voltage. Includes external 110V switching power supply and 12V cord with cigarette lighter; Discharge-only feature retains discharged battery capacity on screen; Enhanced Li-ion algorithm reduces charging time..... **\$74.99**



MH-K5000



MH-C801D

### MH-K5000 One-Hour Travel Charger

Worldwide use with an integrated 100-240V, 50/60 Hz switching supply. Revives and conditions poorly performing batteries. Four charging phases: startup charge; rapid charge; top-off charge and maintenance charge. Leave batteries in for extended time without overcharging. Recharge (2) AA/AAA batteries in around one hour; (4) AA/AAA batteries in about two hours. Compact, 4 ounces. Includes (4) AA 2500 mAh NiMH batteries ..... **\$39.99**

### MH-C801D Eight Cell One-Hour Charger

Features eight independent circuits that charge one to eight AA or AAA batteries in any combination. A large LCD screen displays the charging status of each battery (charge, done, conditioning, etc). Choose between a soft charge and fast charge mode. The soft charge delivers the highest battery life and allows 100% compatibility with older, lower capacity batteries. Fast charge allows eight batteries to be fully charged to their maximum capacity in around one hour. Conditioner will charge, deep-discharge and recharge batteries automatically. Includes a 110-240V, 50/60Hz switching power supply . **\$84.99**



### MH-C9000 WizardOne Battery Charger & Analyzer

Capable of charging, conditioning, analyzing, cycling, forming and discharging one to four AA or AAA NiMH or NiCd batteries, all while digitally displaying the battery capacity and voltage on a 3.5 x 1.5 in. LCD screen. In addition to the standard charging, conditioning and discharging, there are two other operations modes. "Break-In" mode performs a "forming" charge designed to properly break-in new batteries. "Cycle" mode allows user to charge and discharge batteries consecutively for up to 12 cycles. Independent negative delta V, temperature and timer protection eliminates over and undercharging. Worldwide 100-240V switching adapter – light weight and small. Also compatible with 12V input – works in a vehicle when used with a cigarette lighter adapter..... **\$69.99**





## RIgrunner

A convenient and safe way to connect to a 12V DC source and distribute it to all equipment, base or mobile. No messy binding posts, frayed wire connections, black tape or short circuits. Eliminates those wall warts.

Now **Anderson PowerPole®** crimp or solder connectors provide a safe secure, hot connect, polarized, color keyed, genderless connector system.

5 models, conservatively rated at up to 80 amps

Each outlet is individually fused with an automotive ATC/ATO fuse. Open fuse LED shows status

Conforms to ARES, RACES, RSGB and ARRL recommendation for high current 12VDC connectors

**RR/8012/C** Intelligent DC Power Panel, 12 Outlets, 80 Amps maximum – DC voltage monitor and alert, internally detachable 6 ft. 8 ga. power supply cable and 12 pair of Anderson Powerpole® crimp or solder connectors ..... **\$149.99**

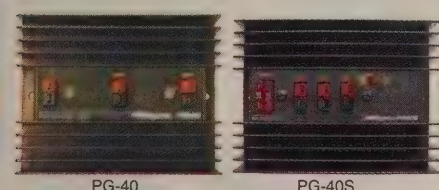
**RR/4010S/C** DC Power Panel, 10 Outlets, 40 Amps maximum – One “always on” outlet and nine automatic or manually-controlled switched outlets.

An on/off system controls entire station with the power button on your rig. Status LED and audio alert voltage monitor. Includes 6 ft. power supply cable and 12 pair of Powerpole® connectors ..... **\$139.99**

**RR/4012/C** Intelligent DC Power Panel, 12 Outlets, 40 Amps maximum – LED voltage monitor indicates normal voltage, LEDs and audio alert for over or undervoltage conditions. Includes 6 ft. power supply cable with 12-pair of Anderson Powerpole® connectors. Dim: 11.8”w x 2.7”h x 1”d ..... **\$129.99**

**RR/4008/C** 8 Outlets, 40 Amps maximum – LED and audio alert voltage monitor. For small or mobile installations or as expansion unit. 12-pair crimp or solder connectors. Dim: 5.75”w x 2.7”h x 1”d. **\$109.99**

**RR/4005/C** 5 Outlets, 40 Amps maximum – A DC power panel for small mobile installs or as expansion for existing panel. Includes 6 ft. supply cable and 6-pair of connectors. Dim: 5.75”w x 2.7”h x 1”d..... **\$79.99**



PG-40 PG-40S

### PG-40 PWRgate Backup Power System

A must for the Hamshack, Repeaters, Emergency Communications Centers, etc. Keeps equipment operational during power failures by instantly switching to a back-up 12V battery or power supply (not supplied). Rated up to 40 Amps continuous and a built-in mini-charger keeps the connected battery fully charged and ready for emergency operation. Output via Anderson 40A Powerpoles®, connectors are not supplied. Dim: 1.64”h x 3.9”w x 5”d ..... **\$69.99**

### PG-40S Super PWRgate 12V Backup Power System

Similar to PG-40 but includes a built-in four-stage battery charger with selectable current rates of 1, 4, 7 or 10 amps. The charger circuit is optimized for use with GELLED & AGM type batteries, but will keep flooded lead acid and marine type batteries near full charge as well. The Super PWRgate and a connected power supply may also be used to charge a battery that is powering a radio in operation ..... **\$129.99**



C30/PK/12  
C45/PK/12



PWR/TOOL

### Anderson PowerPoles®

**C30/PK/12** – 30A PowerPoles® .... 12 pair **\$11.99**

**C45/PK/12** – 45A PowerPoles® .... 12 pair **\$17.99**

**PWR/TOOL** Powerpole® Crimp Tool – Crimps 15, 30 & 45 Amp contacts. Ratcheted for high strength, low resistance crimps every time ..... **\$49.99**

### CBA-2 Computerized Battery Analyzer

Test virtually any type or size of battery, any chemistry, any number of cells up to 48 Volts. Capable of up to 40A or 150W, whichever is higher. Determines A/H battery capacity, and displays voltage versus amp-hours which may be saved and printed. Quiet fan cooling and LED status indicators. Works plug-and-play with your computer. Includes program on CD-ROM and 6 ft. USB cable **\$109.99**

**CBA/TEMP** Temp Probe for CBA-2 ..... **\$11.99**

**RT-1** RigTalk USB to serial converter with TTL output – Provides USB Serial control or programming of any radio with a TTL level interface, CAT or CI-V. Compatible with USB 2.0 or lower. Convenient pocket sized USB dongle design. Comes with a CD-ROM provides plug and play installation and includes a collection of software. Cables available for all ICOM and TEN-TEC CI-V controllable radios and YAESU CAT. .... **\$49.99**

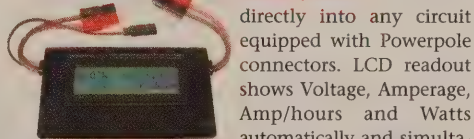
**CATMINI/CBL** Yaesu Cable for RT-1 ..... **\$12.99**

**CIV/CBL** ICOM/TEN-TEC Cable/RT-1 ..... **\$8.99**

**WHAT/MTR** – Connects directly into any circuit equipped with Powerpole connectors. LCD readout shows Voltage, Amperage, Amp/hours and Watts automatically and simultaneously. Reads up to 60 Volts DC, 75 Amps and 94 Amp/hours. Dim: 3.8”w x 2.1”h x 0.9”d..... **\$69.99**

**CATMINI/CBL** Yaesu Cable for RT-1 ..... **\$12.99**

**CIV/CBL** ICOM/TEN-TEC Cable/RT-1 ..... **\$8.99**



**WHAT/MTR** – Connects directly into any circuit equipped with Powerpole connectors. LCD readout shows Voltage, Amperage, Amp/hours and Watts automatically and simultaneously. Reads up to 60 Volts DC, 75 Amps and 94 Amp/hours. Dim: 3.8”w x 2.1”h x 0.9”d..... **\$69.99**



APO-3-PP

BT-JUNIOR

**APO-3-PP** Automatic Power Off Switch – Prevents vehicle battery discharge. Automatically switches radio off 5, 10 or 20 minutes after the vehicle is shut off. Input: 7 to 20V DC @ 30 amps holding/20 amps switching. PowerPole equipped ends. Dim: 3.3”h x 4.75”w x 1.35”d, 5.5 oz **\$59.99**

**BT-JUNIOR** Battery Tender Junior Jr. – A 110 VAC to 12VDC @ 0.75A trickle charger to keep your lead-acid, flooded or sealed maintenance free batteries (AGM and gel cell) battery fully charged. Four-step charging program (Initialization, Bulk Charge, Absorption Mode, Float Mode). Reverse polarity protected; 12 ft. output cord. Dim: 3.3”w x 2.3”h x 1.8”d ..... **\$29.99**



### DC Power Connections

**CIG20EM515A** Cigarette Lighter Plug (A) – 5 ft. fused (15 amp AGC) to OEM-T Male plug.. **\$14.99**

**CIG2PP515A** Cigarette Lighter Plug (B) – 5 ft. fused (15 amp AGC) to Powerpole ..... **\$14.99**

**PP20EM5** (C) – 5 ft. Powerpole to OEM “T” Male connector, 15 amps ..... **\$14.99**

**SOCPP115A** (D) – 1 ft. Cigarette Lighter Socket, internal ATC 15 amp fuse, Powerpole end.. **\$14.99**

**PP452RING10G** (E) – 6 ft., 10 gauge Power Supply Cable with 45 amp Powerpoles and 1/4 inch gold plated Ring terminals. .... **\$13.99**

**RINGATC1040A** (F) ATC-style 10 gauge fuse holder with 45 amp Powerpoles mounted on one end and gold-plated 1/4” ring terminals on the other. Includes (2) 40 amp ATC fuses..... **\$14.99**

**RINGATC1215A** (F) ATC-style 12 gauge fuse holder with 30 amp Powerpoles mounted on one end and gold-plated 1/4” ring terminals on the other. Includes (2) 15 amp ATC fuses ..... **\$12.99**

**PPATC1040A** (F) ATC-style 10 gauge fuse holder with 45 amp Powerpoles mounted on each end. Includes (2) 40 amp ATC fuses ..... **\$14.99**

**PPATC1215A** (G) ATC-style 12 gauge fuse holder with 30 amp Powerpoles mounted on each end. Includes (2) 15 amp ATC fuses ..... **\$12.99**

### Red/Black DC Zip cord

Made for use in 12-volt DC power applications with extra flexible soft bare copper stranding for maximum flexibility and conductivity. The automotive grade PVC insulation is oil, gas resistant and usable over a -40 to 175°F range.



**RB-12-25** 25 ft. 12 gauge ..... **\$22.99**

**RB-14-25** 25 ft. 14 gauge ..... **\$14.99**

### PowerPole® Connectors

High current, low loss electrical connectors which can be soldered or crimped. The 30 Amp rated terminals fit 18 to 12 ga., and 45 Amp rated, up to 8 gauge wire. ARES, RACES, RSGB accepted.

**PPRB3010** 10 pair 30A Powerpoles ..... **\$9.99**

**PPRB3025** 25 pair 30A Powerpoles ..... **\$19.99**

**PPRB4510** 10 pair 45A Powerpoles ..... **\$14.99**

**PPRB4525** 25 pair 45A Powerpoles ..... **\$29.99**

**PPRB7582** 2 pair 75A Powerpoles, 8 ga. **\$7.99**



### Red-Dee 2™ Power Splitters

Power distribution when using PowerPole equipped cables. Minimum power loss and convenience. All are rated to handle 45 amps @ 58 VDC. Not fused.

**PS-4** (A) ..... **\$14.99** **PS-6AA** (C)..... **\$31.99**

**PS-4 Plus** (B) **\$14.99** **PS-8** (D) ..... **\$24.99**

**CT-2** Crimping Tool for 15, 30 & 75 amp Powerpoles... **\$12.99**





## 811A HF Amplifiers

- Covers 160-15M, including WARC band
- HD silicon steel core Plate Transformer (17 lbs.)
- Tuned Input; ALC Control; Quiet Air Cooling
- Dual Meters (Plate Voltage, Grid and Plate Current); Vernier Reduction tuning
- Dim: 15.5"d x 13.75"w 8.25"h; Weight: 52 lbs.

**NOTE:**  
10/12 meter  
Modification Kits for  
Ameritron Amps are  
available to licensed  
Hams direct from  
Ameritron



**AL-811** - Uses (3) 811A transmitting tubes. Delivers 600W PEP output SSB/500W CW ..... **\$669.99**

**AL-811H** - Uses (4) 811A transmitting tubes. Delivers 800W PEP SSB/600W CW ..... **\$799.99**

## 3-500Z HF Amplifier

- Covers 160-15M, including WARC bands
- A Full KW PEP! (70% efficiency)
- HD silicone steel core Plate Transformer (26 lbs) and Computer Grade capacitors
- Tuned Input; Adjustable ALC; Air Cooled
- Dual Cross-needle meters (SWR, PEP power, Plate voltage, Grid and Plate current)
- Operates from 90-140VAC or 205-250VAC
- Dim: 15.5"d x 14.5"w x 18.5"h; Weight: 48 lbs.



**AL-80B** - Uses a single 3-500Z transmitting tube. Delivers 1000W PEP output SSB/850W CW. The high-voltage secondary can be wired to reduce plate voltage for efficient operation below 400W for use outside the USA..... **\$1299.99**

## Solid State HF Mobile Amplifier



**ALS-500M** - Increase your HF mobile power up to 500W PEP/400W CW. Continuous coverage 1.5-22 MHz. Uses (4) 2SC2879 RF power transistors. Instant bandswitching, no tuning, no warm-up and SWR protected. Runs nicely from 13.8 VDC mobile electrical system drawing 80 Amps peak current. Dim: 3.5"h x 9"w x 15"d; 7 lbs..... **\$749.99**

**ALS-500RC** Remote Head - For ALS-500M amplifiers SN:13049 & up. Features: Band select, On/Off & DC Current Meter. TX/overload LEDs.... **\$49.99**

## Solid State Base Amplifier



**ALS-600** - No Warm Up, No Tune Up - Just turn on and operate. Uses (4) 2SC2879 RF power transistors with 600W PEP/400W CW output and continuous coverage 1.5-22 MHz. SWR and power protected. Includes AC power supply. Dim: amp and supply both 6"h x 9.5"w x 12"d. Wt: 30 lbs ..... **\$1129.99**

**ALS-600S** - Similar but with ALS-600SPS switching power supply; Weight: 22.5 lbs ..... **\$1249.99**

# AMERITRON

## 3CX-800A7 HF Amplifiers

- Cover 160-15M, including WARC bands
- HD silicon steel core Plate Transformer (32 lb.)
- Tuned Input; ALC Control; Air Cooled
- Dual illuminated Cross-Needle meters show SWR, Plate voltage, Grid and Plate current
- Operates on 90-140 VAC, 200-250 VAC
- Dim: 8.5"h x 16.5"w x 13.75"d; Weight: 52 lbs.



**AL-800** - Uses as a single *Eimac*® 3CX800A7 tube. Delivers 1250W PEP SSB output..... **\$1869.99**

**AL-800H** - Uses (2) *Eimac*® 3CX800A7 tubes. Delivers 1500W PEP SSB output..... **\$2799.99**

## 572B HF Amplifier

- Covers 160-15M, including WARC bands
- Heavy Duty silicone steel core Plate Transformer
- Instant 3 second warm up
- Tuned Input; ALC Control; Air Cooled
- Dual illuminated Cross-needle meters show SWR, Plate voltage, Grid and Plate current
- Multi-voltage Operation
- Size: 8.5"h x 15.5"w x 14.5"d; Weight: 40 lbs



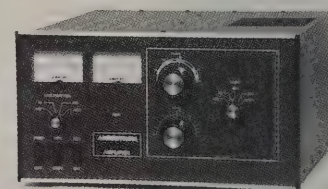
**AL-572** - This Near Legal Limit™ amplifier uses (4) rugged 572B tubes. Delivers 1300W PEP SSB and 1000W CW continuous output for about 65% of the price a full legal limit amplifier ..... **\$1399.99**

## Super Legal Limit Amplifiers

- Cover 160-15M, including WARC bands
- Strong Stainless Steel Chassis
- Highly efficient *PeterDahl* tape wound Hypersil® Plate Transformer, up to 2500W
- Grid and Plate meters show drive, ALC, Power output and PEP Watts
- Dim: 18"h x 17"w x 10"d; Weight: 77 lbs.



**AL-1500** - Uses a single *Eimac*® 8877 Ceramic tube. Only 65W of drive power delivers full legal 1500W CW output. Time-delayed start protects the tube and over-current shut-off removes the drive if amplifier is mistuned ..... **\$3049.99**



**AL-1200** - Uses Ham radio's toughest tube, the *Eimac*® 3CX1200A7. It has a 50W control grid dissipation and can deliver more than 2500W two-tone output for 1/2 hour..... **\$3199.99**



**AL-82** - Uses (2) 3-500Z tubes. Delivers 1500W output which is more than other 3-500Z linear models because their lighter weight power supplies can't use these tubes to their full potential ..... **\$2299.99**

## AMERITRON ACCESSORIES



ATP-100/102

QSK-5

ARB-704

ICP-120/240

ADL-2500

ADL-1500

AWM-30

### ATP-100

Tuning Pulser - Safely tune up RF power amplifiers. Prevents overheating, tube damage, power supply stress and component failure..... **\$59.99**

### ATP-102

Deluxe Tuning Pulser - Similar but with variable pulser and delay **\$69.99**

### QSK-5

Pin diode T/R Switch - Faster than a vacuum relay. Connects externally to HF RF power amplifiers. Handles 2.5 KW PEP/2 KW CW..... **\$339.99**

**QSK-5PC** - PC board version **\$259.99**

**CF-5** Cooling Fan - for QSK-5 **\$39.99**

### ARB-704

Interface Buffer - Prevents damage to radio's internal relay contacts resulting from keying amplifiers with too much control voltage, excessive current or voltage spikes on the relay control line. Compatible with transceivers that provide a ground on transmit. Use ARB-704I2 for IC-706/IC-7000 only..... each **\$59.99**

### ICP-120/240

In-rush Current Protector - Stops power-on in-rush current surge and absorbs momentary voltage spikes. Use ICP-120 for 110-120V; ICP-240 for 220-240V ..... each **\$79.99**

### ADL-2500

Dry Dummy load - Rated 2500W average power for 1 minute on, 10 minutes off, 300W continuous. Fan cooled, low VSWR up to 60 MHz..... **\$199.99**

### ADL-1500

Oil Filled Dummy Load - Handles 1500W for 5 minutes. Usable with low VSWR up to 400 MHz. Includes oil and container as pictured..... **\$74.99**

### AWM-30

SWR/Wattmeter - Perfect for making linear amplifier power measurements. A lighted Cross-needle meter to show true Peak or Average on 300W and 3000W ranges up to 30 MHz. Remote sensor. Uses 9V battery or 12VDC ..... **\$149.99**

### RCS-4

Remote Coax Switch - Selects one of four outputs by supplying control voltages thru the coaxial cable. Rated 1500W from 1.8 to 30 MHz.. **\$139.99**

### RCS-8V

Remote Coax Switch - Selects one of five outputs using one feedline and 6-wire control cable. Rated 1KW @ 150 MHz, usable to 250 MHz ..... **\$149.99**

**RCS-8VN** Same as RCS-8V but N-type connectors instead of SO-239 **\$159.99**

### RCS-10

Remote Coax Switch - Selects one of eight outputs by supplying control voltages thru a four conductor cable. Rated 5KW from 1.8 to 30 MHz ..... **\$169.99**

Various "Plug & Play" Interface Cables for Ameritron Amps - See Price Guide

Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 WI  
Browse Our Store On-Line at [www.aesham.com](http://www.aesham.com)

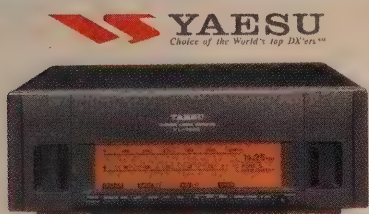


## HF POWER AMPLIFIERS



**PW-1** HF/50 MHz All Band 1 KW Linear Amplifier – Frequency range: 160-15M/6M. Power output operating on 180-264V AC is 1000 PEP SSB (1000W CW/RTTY/SSTV) @ 100% duty cycle, QSK with 100W drive. Power drops to 500W PEP/500W at 90-132V AC input. Automatic band change; Built-in all band automatic antenna tuner; Automatic AC voltage selector. Current, voltage, temperature, high SWR and output power protection; Wide range ALC adjusts to almost any rig; Control head is detachable from main unit (shown); Built-in power supply. Two input connectors and four output connectors.

Dim: 14"w x 10.5"h x 14.5"d; 56 lbs ..... **\$4699.99**



### VL-1000/VP-1000 QUADRA SYSTEM

HF/50 MHz Linear Amplifier with Automatic Antenna Tuner and Switching Power Supply. Solid-state design uses MRF-150 MOSFET devices in a four unit push-pull configuration to produce 1000W SSB/CW output (500W SSB/CW/FM on 6 meters) with 80W of drive. Frequency range: 160-15M, 6M amateur bands. Automatic bandswitching with Yaesu FT-1000, FT-1000MP, FT-1000MP MK-V, MK-V FIELD, FT-920, FT-2000 series and FT-9000 series. 16-bit Control CPU provides high speed antenna tuning with memory. The huge dot-matrix LCD provides amplifier-status information, including peak and average power output, voltage, current, and a panoramic SWR monitor, displaying "before tuning" and "after tuning" SWR information. Two input and four output antenna jacks output jacks for versatile equipment and antenna configurations.

Dim: (Amp) 16.25"w x 5.9"h x 17.7"d, 46.3 lbs. (PS) 16"w x 5.9"h x 15"d, 32.2 lbs..... **\$3899.99**



**52-96** SG-500 SMARTPOWER CUBE™ Microprocessor Controlled Linear Amplifier

For 500W operation in your Base station or Mobile. Designed for maximum reliability and for unattended operation where access is limited. Microprocessor control automatically selects band; adjusts amplifier input sensitivity; monitors all parameters for faults (heat, high VSWR, under voltage, etc.); automatic shutdown at fault. Front panel LED status indicators. The most advanced self-protection on the market. Covers 1.6 to 24MHz, rated at 500W PEP SSB and 500W CW (with optional fan) with 80W drive. Less than 1 cubic foot of space. Requires 14VDC 40A average SSB, 90A peak/CW. Dim: 6.1"h x 11.4"w x 12.25"d; 21 lbs. **\$1299.99**



## MIRAGE

**2 Meters  
All Mode**



Power Curve – typical for the **B-5018-G**

IN	0.5	5	8	10	15	20	25	35	50
OUT	---	52	99	119	125	130	135	145	160

Power Curve – typical for the **B-2518-G**

IN	0.5	5	8	10	15	20	25	---	---
OUT	5	56	91	111	135	153	160	---	---

Power Curve – typical for the **B-1018G**

IN	0.5	5	8	10	---	---	---	---	---
OUT	30	150	155	160	---	---	---	---	---

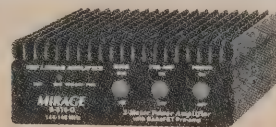
Power Curve – typical for the **B-2530G**

IN	1	3	5	10	25	---	---	---	---
OUT	30	95	140	250	300	---	---	---	---

Power Curve – typical for the **B-5030G**

IN	1	3	5	10	25	50	---	---	---
OUT	---	---	55	150	220	300	---	---	---

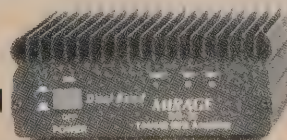
**2 Meters  
All Mode**



Power Curve – typical for the **B-310G**

IN	.25	0.5	1	2	4	6	7	8	---
OUT	25	50	75	95	100	100	100+	100+	---

**2M/440  
Dual Band**



Power Curves – typical **BD-35** output power

Watts Out (2M)	30	40	45	45+	45+	45+	45+	45+
Watts Out (440 MHz)	16	26	32	35+	35+	35+	35+	35+
Watts In	1	2	3	4	5	6	7	8

## VHF/UHF POWER AMPLIFIERS

Models covering 6 Meters thru 70 cm for Base, Mobile, Repeater or ATV operation

Rugged construction • 12V DC operation • FM mode (SSB/CW on some models) • Built-in 20dB gain GaAsFET Receive preamplifier • Overdrive and High temperature protection • Remote control capability • Various input and output levels

Model	MHz	Max Input	Max Output	Amps	Pre-amp	Price
<b>A-1015G</b>	50-52	1-15W	150W	23	yes	\$359.99
<b>B-34</b>	144-148	8W	35W	4	no	89.99
<b>B-34G</b>	144-148	8W	35W	4	yes	109.99
<b>B-1018G</b>	144-148	0.2-15W	160W	25	yes	369.99
<b>B-2518G</b>	144-148	20-35W	160W	25	yes	299.99
<b>B-2530G</b>	144-148	10-35W	300W	48	yes	679.99
<b>B-5018G</b>	144-148	20-60W	160W	22	yes	299.99
<b>B-5030G</b>	144-148	0.5-50W	300W	48	yes	669.99
<b>B-310G</b>	144-148	0.25-8W	100W	15	yes	209.99
<b>B-320G</b>	144-148	2.5-50W	200W	25	yes	459.99
<b>BD-35</b>	144/440	1-7W	45/35W	7	no	159.99
<b>C-22G</b>	222-225	2W	20W	5	yes	149.99
<b>C-211G</b>	222-225	2W	110W	20	yes	299.99
<b>C-1012G</b>	222-225	10W	120W	25	yes	299.99
<b>C-1022G</b>	222-225	10W	220W	40	yes	699.99
<b>C-2512G</b>	222-225	30W	120W	25	yes	309.99
<b>D-15N</b>	425-450	2W	15W	3	no	179.99
<b>D-26N</b>	430-450	2W	60W	12	no	249.99
<b>D-1010N</b>	430-450	10W	100W	15	no	379.99
<b>D-3010N</b>	430-450	30W	100W	20	no	349.99
<b>D-1010ATV</b>	430ATV	10W	100W	20	no	399.99

N = Type-N connectors

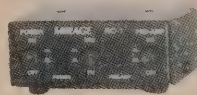
### More MIRAGE amps...

Continuous duty Repeater Amplifiers for: 6M, 220 MHz, 440 MHz & ATV

See the Price Guide under MIRAGE

### REMOTE HEAD

**RC-1** – Remote control Mirage amplifier functions: Power and Preamp On-Off, FM/SSB mode. Dim: 1.75" x 3.75" x 2.5". Includes 18 ft. control cable ..... **\$49.99**  
**RC-2** – for B-XX18G series amplifiers.. **\$49.99**



### DOCKING BOOSTER

**B-24G** – Slide in an HT with 0.5 to 8W output for an instant 50W Mobile or Base. station. Replaces HT battery with selectable voltages that adapt to most HTs. Built-in 18dB gain GaAsFET preamp with On-Off switch and LED indicator. Transmit LED. Place on dashboard or desk, or mount with the supplied tilting bracket. Uses 13.8 VDC @ 7A. Dim: 4.25"h x 3.35"w x 3.25"d. **\$109.99**

See Price Guide under MIRAGE

for available Handheld adapters for the B-24G



## MIRAGE

### LOW NOISE GaAsFET RECEIVE PREAMPS

High gain ultra low noise GaAsFET preamps for boosting weak signals on VHF and UHF bands and compensating for feedline loss. Selectable gain prevents receiver intermod. Provides 15 to 22 dB Gain with a Noise Figure of less than 0.8 dB. Installs in-line with automatic T/R switching up to 100 Watts. In-shack or mast mount models. Voltage: 12-15V DC, N-Connectors.

In-Shack Models – **\$139.99** each

**KP-1/6M** – 50-54 MHz **KP-1/2M** – 144-148 MHz

**KP-1/440** – 430-450 MHz

Mast Mount Models – **\$184.99** each

**KP-2/6M** – 50-54 MHz **KP-2/2M** – 144-148 MHz

**KP-2/440** – 430-450 MHz







## Microphones • Microphone Elements • Accessories



### GM Series

Provides full-range, smooth and articulate audio for AM, FM and "hi-fi" SSB. The wide 60-16 kHz frequency response, with a +4 dB midrange peak @ 2kHz, produces brilliant articulation for clear, understandable SSB audio, and adds a well-balanced robust low end. There's a second switch selectable HC-4 or HC-5 element to provide extra punch when needed. A "soft touch" microswitch provides smooth, noise-free PTT operation. The die-cast body is finished in high lustrous black lacquer and topped with a golden grill. Requires a CC-1 adapter cord.

- GM-4** GM with Full Range and HC-4 elements..... **\$145.99**  
**GM-5** GM with Full Range and HC-5 elements..... **\$145.99**  
**GM-V** "Vintage" GM - Built-in transformer allows its use with older rigs like Collins, Hallicrafters, Johnson, etc. Uses the full range element and switchable passive EQ circuit for an alternate narrow, more articulate response..... **Closeout \$129.99**

### HM-10-DUAL

The great sounding Heil microphone that has been on the Ham bands for years. The HM-10-Dual has both the HC-5 "Full Range Articulation" element that makes your rig sound better and more intelligible and HC-4 "DX Dream Machine" elements, switch selectable. Requires a CC-1 adapter. **HM-10-DUAL**..... **\$128.99**

### PRE-PRO ICOM

Built with a special electret condenser element that provides plenty of output, great sound and punch for the older ICOMs that are low in mic gain. Platinum finish, soft touch PTT switch. Includes an 8-pin ICOM mic. cable. **ICM**..... **\$105.99**

### CLASSIC

A 1930's RCA 74B exact replica, all metal construction. Dual elements, featuring a broadcast dynamic element, and choice of the second (HC-4 or HC-5) communications element. Element switch and soft touch PTT on the back panel. Select 600 or 30k ohms impedance. The stainless steel trimmed cast steel base and the logo rotates for boom mounting. Call letters available from Heil after purchase. Shown with CB-1 stand, not included. Requires a CC-1 adapter cable.

- HCL-5** (with HC-5 element)..... **\$245.99**  
**HCL-4** (with HC-4 element)..... **Closeout \$229.99**

### STUDIO

**PR-20** Proline Dynamic Cardoid Microphone - For commercial broadcast and live sound reinforcement applications which require a smooth flat 40 Hz-18 kHz response. 5/8" x 27 mount assembly..... **\$150.99**

**PR-40** Large Diameter Studio Microphone - New element technology with a response from 28 Hz to 18 kHz with a mid-range rise for gorgeous vocal articulation..... **\$325.99**

**PR-781** Proline Dynamic Microphone - Features full-bodied tone quality, with crisp high-frequency articulation. Works well with the Yaesu FT-1000MkV, FT-DX9000, Kenwood TS-2000/870/850, the Icom IC-7800 and all of the PRO models. Balanced 600 ohms, 3-pin output, requires an CC-1 XLR cable. Black satin epoxy finish. Comes with an SM-3 mount, does not include base. **\$179.99**

### Replacement Microphone Elements



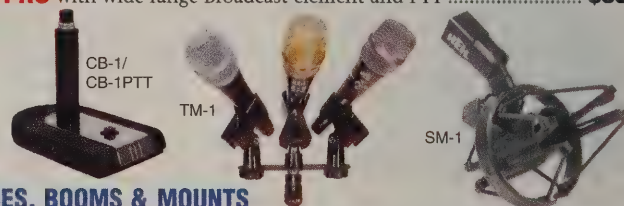
**HC-5** Full Range Articulation Element - Make your rig sound better and more intelligible to the listener by providing full articulation and more clarity than a stock microphone can provide. A 350 to 4000 Hz response with a sharp roll-off under 300 Hz and above 3100 Hz, with a peak at 2100 Hz produces very clear, easy-to-understand audio that will get you lots of compliments..... **\$45.99**

**HC-4** The "DX Dream Machine" Element - Produces super audio clarity with more PUNCH for difficult conditions like contests, DX & weak-signal VHF/UHF work. Outstanding results on pile-ups, aurora and backscatter where SSB signals need maximum penetration and intelligibility. Designed with 500 to 3800 Hz response with a 10dB peak @ 2000 Hz and 12dB per octave roll off @ 500 Hz which gives it a sharp sound that really penetrates under difficult conditions, but is not real pleasing to the listener for everyday use..... **\$45.99**

### HANDI-MICS

Here are four clean and clear sounding Handi-Mics; each for different applications, mating to different rigs and inputs. A very comfortable tactile PTT switch is incorporated on four of the models. Only 4 in. tall, and the required Heil CH-1 series shielded cables are 4 ft. long (2 ft. coiled, 2 ft. straight). Includes a unique dash mount holder, boom clip and a windscreen.

- HM-4** with HC-4 "DX Dream Machine" element and PTT button..... **\$85.99**  
**HM-5** with HC-5 Full Range Communications element and PTT..... **\$85.99**  
**HM-IC** with Electret element, for most ICOM rigs and PTT..... **\$85.99**  
**HM-PRO** with wide range Broadcast element and PTT..... **\$85.99**



### BASES, BOOMS & MOUNTS

**CB-1** Classic Base - A reproduction of an RCA microphone base. The heavy, 2 lb. 7 oz. cast steel with stainless steel trim is solid and stays put. Dim: 4" w x 6-1/2" d x 3/4" h with 3 inch high, 5/8" x 27 threaded microphone mount..... **\$60.99**

**CB-1-PTT** Classic Base with soft PTT switch (pictured)..... **\$70.99**

**TM-1** Tri-Mount - Holds up to three microphones on 5/8" x 27 thread mounts for convenient multi-rig operation..... **\$14.99**

**SM-1** Spider Shock Mount - For GM, HM or "icm" microphones. An 8-point flexible suspension supports and isolates microphones from mechanical vibrations. The 3/8" x 27 threads mount to the PL-2T or other microphone stands and booms. Give your shack a great "studio" look!..... **\$72.99**



**PL-2T** "Topless" Pro Studio Boom - Features a perfectly balanced arm with silent internal springs and removable tops that simplify hiding the microphone cord inside the channels. It puts the microphone right where you want it, providing a 41 in. reach. Balanced for microphones up to 2 lbs. Comes with a "C" clamp table mount. Accepts 5/8" x 27 threaded microphones - or for real class, attach a Heil SM-1 Ultimate Shock Mount System..... **\$109.99**

**SB-2** Small Microphone Boom Extends from 10 to 24 in., with angle adjustments for positioning. Has a standard 5/8" x 27 thread microphone mount and secures to an edge with a "C" clamp, or into a 1-3/8" hole..... **\$55.99**

**DT-1** Desk top Flush Mount - Allows Heil booms to slip into into a 1-1/2" hole drilled into your desk top..... **\$31.99**

**FL-2** Flange Mount - Mounts PL-2T directly to desk top..... **\$25.99**

**RS-1** Riser - A 12 in. high flange mount that allows the PL-2T studio boom to mount elevated BEHIND the radio so the boom can be brought down into position OVER the radio..... **\$25.99**

### ACCESSORIES



See Heil in the Price Guide for Adapter Cables and Accessories









## DSP Speaker



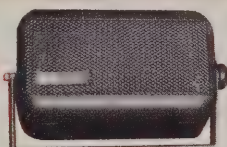
**HEAR IT** - Adaptive DSP Technology adapts to changes in background or man-made noise levels and attenuates it up to -20dB, resulting in cleaner audio. If your radio already has DSP, it will provide additional improvement in readability. If it doesn't have DSP, there will be a huge improvement. Eight user-selectable noise cancelling levels, or cancelling can be switched off entirely. Plug headphones or another speaker into the audio bypass jack and retain DSP noise reduction. A built-in amplifier provides 2.5W of audio power. Requires 12-28VDC @ 500mA. Includes a 6.5 ft. lead with 3.5mm mono plugs. Dim: 4.5" w x 2.75" h x 2.25" d..... **\$169.99**

## In-Line DSP Module



**IN LINE MODULE** - Provides the same DSP features as the 'Hear it' speaker above, but without the speaker. Built-in 5W audio amplifier for your station speaker. Has 3.5mm mono and RCA phono audio input/output jacks and headphone jack. Requires 12-24VDC @ 500mA. Includes a 3.5mm audio cable and fused power leads. Dim: 6.75" w x 3.35" h x 1.4" d; 1 lb..... **\$219.99**

## SGC ADSP<sup>2</sup> Speaker

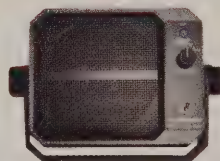


**70-14** - Delivers top Adaptive DSP Noise Reduction for ANY transceiver. There are two pushbutton switches that toggle between 0, 13dB or 26dB of noise cancellation and 1 of 3 bandpass filters (100, 500 & 1500 Hz). It provides -45dB out of band reduction with one-click operation. There is a headphone jack for private listening. The black metal enclosure has an adjustable stand and cable for audio input (mono mini plug) and for 12 VDC @ 110-500mA input. Dim: 3" h x 5" w x 2.5" d; 11 oz .. **\$160.99**

## West Mountain Radio

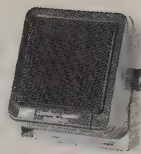


## ClearSpeech® DSP Speaker



**CLR/SPKR** ClearSpeech® DSP Noise Reduction Speaker - A 4" speaker with an Adaptive DSP Noise Reduction circuit and 2W audio amplifier. The DSP passes Voice and CW while hum, hiss, ignition and power line noise, static crashes and heterodynes are removed or greatly attenuated. Selectable Out, Low, Medium, High and Maximum noise reduction. Comes with tilt mounting bracket, 6 ft. 12V DC power cable with Powerpole® connectors and 6-ft. audio cable with 1/8-in. mono plug. Rear jack for connection to an external speaker; On-Off switch with green indicator LED; a Blue LED assists in setting the proper input level to avoid clipping. Dim: 4.25" h x 5.25" w x 2.5" d..... **\$219.99**

**281 Communications Speaker**  
Features a rugged 3 inch mylar cone speaker mounted in an effective baffle. Improves speech intelligibility in the 600 to 4000Hz range while reducing undesirable noise, static and hum. Includes adjustable mounting bracket. Dim: 3.75" h x 3" w x 2.25" d ..... **\$12.99**



## MFJ

**382 Deluxe Amplified Speaker**  
Excellent for QRP's, base station HTs or rigs requiring more volume level. A quality 3 inch speaker in an all metal cabinet with rubber feet and vinyl clad cover does the job. Uses a 9 Volt battery or 110V AC with optional MFJ-1312D. Audio cable included. Dim: 3.5" h x 1.75" w x 4.5" d ..... **\$39.99**



**784B Tunable DSP Audio Filter** - Improves reception by simultaneously eliminating heterodynes and reducing noise and interference in nearly any mode. Provides 5 tunable DSP filters, plus 10 programmable filters. An Automatic Notch eliminates heterodynes and Adaptive Noise Reduction automatically handles varying noise levels to enhance intelligibility and reduce fatigue. Highpass, lowpass and tunable bandpass filters combine to dig out weak and difficult signals. Uses 12 VDC or 110V with the MFJ-1312D. Dim: 9.5" w x 2.5" h x 6" d..... **\$249.99**



**616 Speech Intelligibility Enhancer™** - Provides approximately 20dB audio frequency boost or cut to four overlapping octave ranges centered at 300, 600, 1200 & 2400 Hz. Improves ability to hear and understand SSB, FM, AM, CW & QSOs by adjusting response levels to match hearing response for best clarity, then equalizing perceived loudness to each ear. Built-in dual, 2.5W, audio amps; front panel jack; speaker on/off switch; 2 selectable transceiver inputs; bypass switch. Use with rig or PA. Dim: 10" w x 2.5" h x 6" d; requires 12 VDC ..... **\$179.99**

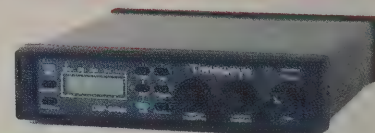


**1263 Microphone Control Center** - Eliminates swapping mic connectors. Mix and match any two microphones to any two transceivers. The microphones or transceivers can have 8-pin round or modular connectors. Plug in a PTT foot switch or let a computer or voice keyer control the PTT line. Also plug in headphones and an external speaker. The headphones are always active and a volume control eliminates the need to readjust the rig's volume when switching the speaker on. An input jack and on/off switch are provided to insert external audio into the microphone audio input line. Great for inputting sound card, SSTV, AFSK, TNC and other audio sources. Includes two 8-pin round radio cables. Dim: 6" w x 1.5" h x 5" d..... **\$109.99**

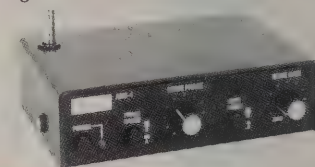


## MIDLAND High Performance Mobile speaker

- Clear crisp sound
  - 4-ohm • 15W capacity
  - Swivel base • 5.5" w x 5.5" h
  - Cord with 3.5mm plug
- 21-406 \$22.99**



**DSP-599ZX DSP Noise Filter** - Digital Signal Processing provides superior reduction of QRM and QRN. Examines and measures signal and noise correlation, dynamically filtering out undesired noise. Great for VHF/UHF weak signal and aurora work when it can provide a remarkable improvement in clarity to fluttery or distorted SSB signals. Filter settings are displayed on the LCD; Optical encoders for continuous tuning of filters; Data and bandpass filters with steep skirts and linear phase response for CW and RTTY; Bandwidth Range: 10 Hz to 600 Hz; Center frequencies 200-2150 Hz, wider filters allow easy tuning and listening to multiple CW signals; Data filters: RTTY, AMTOR, PacTOR, G-TOP™, HF Packet, SSTV, WeFAX, SITOR and CLOVER; Test instrument mode provides audio sine wave generator, audio millivoltmeter and two-tone audio generator ..... **\$436.99**



**ANC-4 Antenna Noise Canceller and Diversity Combiner** - Effective with any transceiver (250W max.) or receiver from 500 kHz- 80 MHz. Reduces or eliminates power line, computer and TV noise by cancelling it before it affects the receiver AGC circuits. Connects between your antenna and radio with a second antenna acting as a noise pickup. Controls adjust signal phase and magnitude from the two antennas to effect noise cancellation. It also can operate as an active antenna using a the noise antenna and noise gain control. And, it can be used as a diversity combiner to pick up enhance weak signals or null interfering signals. 11-16V DC @ 300 ma. Dim: 1.7" h x 6" w x 4.3" d; 2 lbs ..... **\$209.99**

## ESP

## Microphone Audio Processor



**ESP-1** - Improve your communications clarity with the addition of Compression (AGC), a Noise Gate, plus Bass and Treble adjustment. A backlit LCD displays all functions for monitoring during operation. The input/output level controls make it easy to configure the ESP-1 for any transceiver with an 8-pin microphone connector. EZ to operate, there are no complicated switching or unnecessary functions..... **\$225.99**

**COMPRESSION/AGC:** Adjustable from 0 to 14 dB, keeps modulation constant with varying speech level. Increases average speech level, adds punch and intelligibility.

**NOISE GATE:** Eliminates background noise present in the ham shack (blowers, A/C units, conversation, etc.) during pauses in speech.

**BASS & TREBLE:** Adjust to your personal preference by listening to the ESP-1 output with headphones using the rear mounted jack.



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Amateur Radio & Computer Show

**2008**

**February 8, 9 & 10**

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Kick off the year 2008 in Orlando, at one of the great hamfests. See the latest equipment. Shop for swap table deals. Find bargains at the largest tail-gating area in the Southeast.

There are transceivers, mobile rigs, HT's, amps, antennas, call-letter hats, wire, parts, T-shirts, eye-ball QSO's, QSL cards, forums, food, computers, sun and fun. You'll think it's ham heaven.

Home of some of the best known theme parks on earth, Orlando has all you need to round out your visit. It will be a great vacation for you and the family. Make your plans now for the **2008 Orlando HamCation<sup>SM</sup>**.

Advance tickets: **\$8.00** (ends Jan. 21, 2008)

Tickets at the gate: **\$10.00**

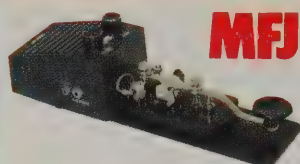
For current information please visit our web site at **www.hamcation.com** or call **407-814-0434**, e-mail us at: **hamcation@oarc.org** or e-mail Mort & Roberta Cohen at **wa2ars@aol.com**.

Write us at: **HamCation<sup>SM</sup>**, P.O. Box 547811, Orlando, FL 32854-7811

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- 150 Commercial Exhibits
- Over 400 Swap Tables
- Largest Tailgate Area In Florida
- Florida Weak Signal Society Activity report
- Testing On Saturday
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- Fox Hunt (4 pm Saturday)
- Guest Friendly Central Florida Atmosphere
- Theme Parks Nearby
- Courtesy Talk-In On 146.76 (Backup Talk-In On 147.015)

ORLANDO AMATEUR RADIO CLUB



**MFJ****CODE  
PRACTICE  
READERS  
KEYERS**

**557 Code Oscillator with Key** – Practice sending code anywhere. A Morse straight key on a non-skid heavy steel base. The oscillator has a built-in speaker, adjustable volume and tone. Uses 9V battery (not included) or 110VAC with MFJ-1312D (\$15.99). Dim: 8.5" d x 2.25" h x 3.75" w .... **\$39.99**

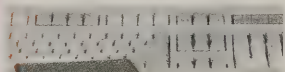


**554 Code Practice Oscillator** – Designed for classroom use with great sound that enhances learning of Morse code. Plenty of volume from a built-in 1W amp and 3 inch speaker. Volume control and adjustable tone control (400-1000 Hz). On/off switch, power LED, 1/4" key jack, 3.5mm external speaker and DC input jacks. Requires 12V DC. Metal enclosure. Dim: 4.25" x 1.5" h x 5" d **\$89.99**

**550 Hand Key** ..... **\$14.99**



**414 Professional Classroom Tutor** – Features include LCD readout, printer port and audio tape recording output. Build and save 3 custom sets for extra practice. Or combine these to obtain 48 characters for using the KOCH method. Customize random words for practice. Use with 144/440 MHz FM HT or HF transceiver for on-air code practice. VECs can give up to 16 exams. Full-featured memory keyer (1000 character memory, semi/auto modes, iambic A/B, reverse paddle, change speed and tone on-the-fly). Practice sending into the 414 with iambic paddle or straight key. Use built-in or external speaker or headphones. Includes serial port and patch cable. Uses 12 VDC or 110 VAC with MFJ-1312D (\$15.99). Dim: 8.5" w x 2.25" h x 6" d ..... **\$199.99**



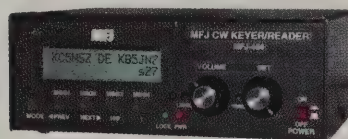
**452 Super CW Keyboard** – A CW keyboard that includes a 2-line 16-character LCD display. Send effortless and accurate CW by just typing and watching the display, no computer required. Speed: 5-100WPM; Weight: 5-95%; Sidetone: 300-3000 Hz sidetone; Serial Numbers (0-9999); Buffer and memory full audible indicators. Keys solid-state and tube-type rigs. Requires 12VDC ..... **\$139.99**

**462B MultiReader™** – Feed in audio from a receiver or transceiver, tune in CW, RTTY, ASCII or AMTOR (FEC) signals and read the audio decoded text directly from the 2-line, LCD display. Copy most standard shifts and speeds in all modes. AutoTrak™ feature for high-speed CW. An 8K memory for storage and convenient printer port. Requires 12VDC. Dim: 6.25" w x 2.5" h x 6.25" d .... **\$189.99**

**461 Pocket-Size****Morse Code Reader™**

No cables to hook-up and no other equipment needed. Simply hold the unit near your receiver and it instantly displays CW text in English! Automatic speed tracking and instant 140-character replay on a 32-character LCD. If desired, a serial port lets you display CW text on a monitor using a computer and terminal program. Connect directly to a receiver with optional cable when it's too noisy or CW is unwanted. Uses 9V battery (not included). Dim: 2.25" h x 3.25" w x 1" d, 5.5 oz. .... **\$89.99**

**5162 Receiver Cable** – Connects the 461 or the 462B to a radio's external 3.5mm jack ..... **\$7.99**



**464 CW Reader With Built-In Keyer** – Plugs into a transceiver's speaker/phone jack and key jack. Add a single or iambic paddle or computer keyboard and it's ready for complete CW operation. Send and read at 5 to 99 WPM with automatic speed tracking. Menu operation; two-line LCD shows "send and receive" text; Front panel speed and volume controls; four message memories; 190 character type-ahead and read-again buffers; Adjustable weight (25% to 75%) and sidetone; Built-in speaker; Dim: 6.25" w x 2.5" h x 6.25" d ..... **\$179.99**



**407D Deluxe Electronic Keyer** – Dot-dash memory, self completing dots and dashes and jam-proof spacing. Single, squeeze, or straight key functions. Front panel speed, weight, tone and volume, ON/OFF, and tune controls; Selectable auto or semi-automatic and A/B-type iambic keying Built-in speaker. uses 9V battery. Dim: 7" w x 2" h x 6" d .... **\$69.99**

**401D Econo Keyer** – Similar to 407D except weight and tone controls are adjusted internally, no tune switch. Dim: 4" w x 1.75" h x 3.75" d ... **\$59.99**



**434B Contest Voice Keyer™** – Call CQ, send your call and do contest exchanges in your own natural voice! Store in EEPROM, frequently used phrases like 'CQ Contest this is K9KHW, "You're 59"... "Grid is EN63" and more! Record and play back five messages (75 seconds total) and repeat continuously with a 3-500 seconds delay. You can record and play back off-the-air signals and there's a jack for remote or computer control. Internal jumpers match Kenwood, Icom, Yaesu, Alinco rigs, using your station or built-in microphone for recording. Built-in speaker and amplifier lets you monitor stored messages. Accepts 8-pin modular or round microphone plugs. The MFJ-73 Remote Control Head (\$34.99) allows out of the way operation. Use 9 Volt battery, 9-15 VDC or 110 VAC with MFJ-1312D, (\$15.99). Dim: 6.5" w x 2.5" h x 6.5" d ..... **\$179.99**

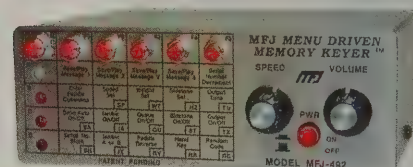


**422D Keyer-Paddle Combo** – Consists of a unique MFJ/Curtis keyer™ in a compact package installed on a Benchner iambic paddle. Adjustable weight and tone and has a front panel volume and speed controls (5-65 wpm). Built-in dot-dash memories, speaker, sidetone and semi-auto/tune modes. Keys grid block, cathode or solid state. Uses 9 volt battery or 110 VAC with MFJ-1312D (\$15.99). Dim: 4" w x 2.25" h x 4.25" d ..... **\$179.99**

**422DX Keyer Only** – Install on your Benchner or MFJ 564 iambic paddle ..... **\$89.99**

**490 Menu Driven Memory Keyer and Benchner Paddle Combination** – A compact feature-rich keyer mounted on a Benchner iambic paddle. No complex sequences. Just press a button to select a menu (LED indicates active menu), then select a feature. Has 192 character (8K) memories divided into four soft sectors. Save messages. Select automatic, semi-automatic or bug or handkey modes. Select iambic A/B, Morse trainer, contest serial numbering. Side tone with built-in speaker and volume control. Adjustable CW speed 5 to 100 wpm. Recognizes special MARS characters. Keys direct or grid-block keying transmitters, solid state or tube rigs. Uses 9-volt battery or 110 VAC with MFJ-1312D (\$15.99). Dim: 5" w x 3" h x 5.5" d ..... **\$199.99**

**490X Menu/Memory Keyer Only** – Same as MFJ-490 but without Benchner paddle ..... **\$109.99**



**492 Menu Driven Memory Keyer** – Same features and as the MFJ-490 but a stand alone unit without paddle. Uses 9-volt battery or 110 VAC with MFJ-1312D (\$15.99). Dim: 6.5" x 2.5" x 6.25" ... **\$109.99**



**495 Millennium CW Keyer** – A powerful keyer combining the latest microprocessor technology with non-volatile memory. Easy-to-use menus and LCD display. Send CW, load messages and set functions using a paddle, keyboard or serial port. Iambic mode works with direct or grid-block outputs. PTT output, built-in speaker, sidetone; Iambic keyer with dot and dash memories; 32 message memories; Repeat message continuously; Insert timed pauses, auto-incrementing serial number, or embedded commands to change speed, weight, etc.; Message editing capability; Input queue to store multiple messages; Digital and analog linear speed control; Farnsworth method with speed from 10-99 WPM; Type-ahead keyboard buffer; Dual user/configuration mode. Uses 9-volt battery or 110 VAC with MFJ-1312D (\$15.99). Dim: 6.25" w x 2.5" l x 6.25" d ..... **\$169.99**



Produced by R.A. Kent Engineers for OUTBACK. Rugged, machined and polished solid brass components. Delicate, smooth feel and free movement with minimum friction and side play. Silver contacts with precise gap alignments are easily adjusted with knurled heads on fine pitched screws. Non-slip feet, and weighted for stability.



**VK-1** The "Vail Lever Correspondent" Key  
A faithful reproduction, accurate to the type of hardware used during the mid-1800s, of the first full mechanism telegraph hand key made for Samuel F.B. Morse by Alfred Vail in 1844. Hand crafted and serialized - a collectable! ..... **\$179.99**  
**SK-1** - Straight Morse Key..... **\$129.99**  
**SP-1** - Single Paddle Morse Key..... **\$139.99**  
**TP-1** - Dual Paddle Iambic Key..... **\$149.99**



**XT-4** CW Memory Keyer - Designed for QRP, field day, mobile or any portable operation. Great in the shack with smaller rigs. Speed range 8-45 WPM; (4) 100 character memories; positive keying output; 3.5mm input jack, RCA phono jack output; Paddle reverse for left or right-hand operation; Auto power save mode engages after 30 min. of inactivity. Uses 9V battery..... **\$69.99**  
**KC-4** - Cable set for XT-4 ..... **\$9.99**  
**VK-64** Combination CW/Voice Keyer - Store and play back CQs, contest info, etc. in both CW and Voice. The Voice has four memories (up to 15 seconds each). The CW keyer does 10-45 WPM with 4 programmable memories of 300 characters each. Configure for: Iambic A/B keying; Weight; Side tone; Paddle reverse. Tune function; Auto repeat and 1/2 to 12-second delay. Run stand alone or control with PC/laptop through a 25-pin printer port. Works with major contest logging programs. Uses a 12V wall power supply .... **\$229.99**  
**VKC-8** Shielded Audio Cable - A semi-kit wired and tested except for microphone and transmitter connectors (8-pin)..... **\$24.99**



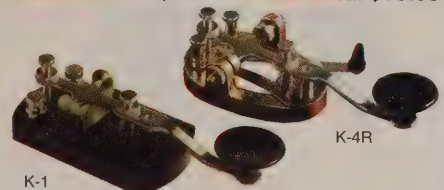
**I-MATE** Accessory for ICOM PRO Series  
Provides external selection of pre-recorded voice and keyed messages for the 756PROII & III and keyed CW messages for the 746PRO. Eliminates shifting the display from operating mode to memory select mode to transmit pre-recorded messages. Four buttons transmit associated messages. Provides pulsed sine-wave oscillator for safe tuner and amplifier tuning. Alternate audio input for second microphone. Plugs into transceiver microphone jack and powers from the available voltage ..... **\$74.99**



**AMECO**  
Code practice oscillator and Morse code monitor

Built-in speaker plus terminal connectors for headphones. Requires a 9V battery and code key.

**OCM-2W** Wired **\$29.99** • **OCM-2K** Kit **\$19.99**



**Morse Code Keys**  
**K-1** Low-cost General Purpose Key - Phenolic base, adjustable tension, contact spacing **\$10.95**  
**K-4R** Deluxe High Quality Key - Polished brass plated zinc base, shorting bar ..... **\$17.95**



**BENCHNER, INC.**  
**IAMBIC & SINGLE LEVER PADDLES**  
Great paddles that are responsive, light to the touch with definitive yet subtle tactile feedback, friction free return, and perfect closure on every dot and dash. Includes gold-plated solid silver contact points and heavy non-skid base.  
**IAMBIC**  
**BY-1** - Black base/Chrome components **\$114.99**  
**BY-2** - Chrome base/components ..... **\$139.99**  
**BY-4** - Black base/Gold components.. **\$179.99**  
**SINGLE LEVER**  
**ST-1** - Black base/Chrome components **\$119.99**  
**ST-2** - Chrome base & components... **\$139.99**

**RJ SERIES KEYS**  
Oil-impregnated bronze bearing pivot points for friction-free pivoting and wobble free vertical tracking. Operating comfort with the black Navy knob with removable skirt and stainless steel locking screws that allow individual adjustment for arm height, tension and contact spacing. Heavy metal base with anti-skid rubber feet.  
**RJ-1** - Black base/Chrome components.. **\$110.99**  
**RJ-2** - Chrome Base & components.. **\$135.99**



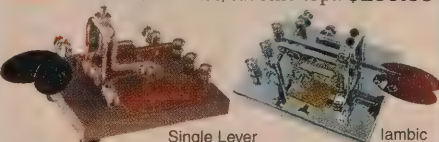
**IDIOM Press LOGIKEY**  
**K-5** Fully Iambic Keyer - An improvement on the world-famous LOGIKEY K-3. More user friendly and an unmatched feature list, with the best operator interface available. New features include greater protection against voltage spikes, lightning, etc. All stainless hardware, internal volume control, updated enclosure design. Three AAA cells run the K5 for months, or it also accepts 9 to 12V DC. Works perfectly with single-lever, non-iambic paddles. Dim: 4.25"w x 2.25"h x 4.75"d. The K5 otherwise has too many features to list, but you'll find full details at <http://www.idiompress.com>..... **\$149.99**  
**HK-3** Hook-up kit for the K3 - Includes Paddle-to-Keyer cordset; RCA-to-RCA keyer output cable and 2.5 mm DC power plug cordset for 12V .... **\$10.99**

## VIBROPLEX®



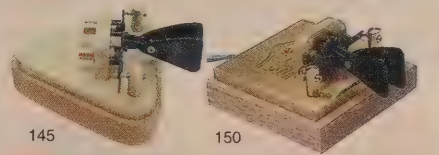
The Original Bug from 1904, is still made using tools similar to those used by inventor Horace Martin. Designed for 20-50+ WPM.

**110** Standard - Painted base/chrome top **\$179.99**  
**105** Deluxe - Polished chrome base and top parts with fine jewel movements ..... **\$209.99**  
**100** Presentation - Polished chrome base and 24K gold-plated base plate and chrome top parts, fine jewel movements..... **\$269.99**  
**090** Gold - Plated base/chrome top.. **\$299.99**



**Vibrokeyers:** Single lever paddle (left) initiates automatic dots and dashes of an electronic keyer. Iambic model (right) allows automatic dot/dash insertion.

**VIBROKEYER**  
**120** Standard - Blk base, chrome parts **\$159.99**  
**115** Deluxe - Chrome base and top parts with jeweled movements ..... **\$199.99**  
**113** Gold - 24K gold-plated base and chrome top parts with jeweled movements.... **\$279.99**  
**IAMBIC**  
**135** Standard ..... **\$159.99**  
**130** Deluxe..... **\$199.99**  
**125** Presentation - 24K gold-plated top plate, chrome base with jeweled movements **\$269.99**  
**123** Gold ..... **\$279.99**



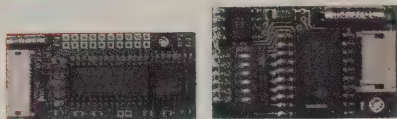
**145** Triangle Brass Racer Iambic - Solid brass paddle & polished hardwood base ..... **\$149.99**  
**150** Square Brass Racer - Solid lacquered brass Iambic paddle mounted on a polished hardwood base. Magnetic action, no springs..... **\$149.99**



**Straight Keys** (left) - Unique mechanical action, unlike any straight key ever manufactured.  
**155** Standard ..... **\$159.99**  
**160** Deluxe..... **\$199.99**  
**153** Gold ..... **\$279.99**  
**Deluxe Double Keys** (right) - Choice of iambic and straight or vibrokeyer and straight key. Double keys allow you to instantly switch from using an electronic keyer to the personal touch of a straight key.  
**165** DLX straight key/Iambic..... **\$349.99**  
**170** DLX straight key/Vibrokeyer.. **\$349.99**  
**CP3** Cord/plug for Iambic/Vibrokeyer.. **\$9.99**



## COMMUNICATIONS SPECIALISTS, INC. TONE ENCODERS & DECODERS



SS-64

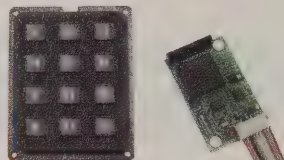
TS-64DS

**SS-64** Programmable CTCSS Encoder – Super small for easy installation in most handhelds. Standard with 64 EIA tones between 33 and 254.1 Hz. Individual tones dip-switch selectable. Dim: 0.66" x 1.08" x 0.21". 6-28 VDC ..... **\$28.99**

**TS-64DS** Field programmable CTCSS Encoder /Decoder – DIP switches select 64 EIA tones 33 to 254.1 Hz. Dim: 1.25" x 2" x 0.3". 6-28 VDC .. **\$57.99**



**TE-32** Multi-tone Encoder – Provides 32 tones via direct access from the dial rotary switch to all EIA CTCSS tones from 67 to 203.5 Hz, allowing access to multiple repeaters. Great for mobile or test bench. Dim: 5.25" x 3.3" x 1.7". 6-30 VDC ... **\$49.99**



**ID-8** Multi-Featured Automatic Morse ID'er Programmable via 12-button pad; Eight changeable messages (200 characters total); CW speed: 1-99 WPM; ID interval timing: 1-99 min.; ID hold-off timing: 0-99 seconds; CW tone: 100-3000 Hz; 6-20VDC. Dim: 1.85" x 1.12" x 0.35" ..... **\$69.99**

Wiring diagrams and lists of Fax-on Demand documents can be obtained from [www.com-spec.com](http://www.com-spec.com).



### TONE SIGNALLING

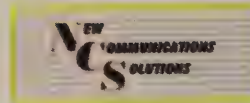
NC-101

**NC-101** Encoder – Micro-miniature CTCSS encoder, field tunable to any CTCSS tone frequency between 67 Hz and 254 Hz. Uses 5 to 15VDC. Dim: 0.60" w x 0.80" l x 0.15" h ..... **\$21.99**

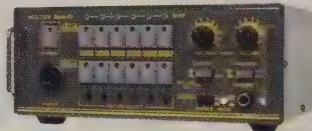
**NC-104** Programmable Encoder – Sub-miniature field programmable CTCSS encoder unit for limited space. Provides standard 37 EIA CTCSS tones plus 69.37, 97.4 and 205.5 Hz. Uses 7 to 24VDC. Dim: 0.625" w x 0.80" l x 0.170" d... **\$26.99**

**NC-106** Programmable CTCSS Encoder and Decoder – A sub-miniature crystal-controlled digital unit. Field programmable with dip switches providing any one of the CTCSS tones + 97.4 Hz. 6-24VDC. Dim: 0.85" w x 1.35" l x 0.28" h... **\$67.99**

**NC-401** Touch-Tone® Decoder – A micro-mini unit combining 2 distinct multi-addressable decoders for control of remote or local applications. Decodes all 16 DTMF characters with an address length of 1-14 characters and features EPROM memory for storage of both primary and secondary codes, input/output functions, dead-beat disable and user outputs, plus default reset. Programs with a conventional DTMF encoder. Uses 6-24VDC. Dim: 0.80" x 1.37" x 0.23" ... **\$69.99**



## Take Control of Your Audio! Instantly Switch Transmit and Receive Audio Among Multiple Radios



**NCS-3230** Multi-RX Receive Console – The ultimate in Receive Audio control from up to 6 receivers! Connect radios, then choose which to monitor, where the audio will appear in the audio field (normal and spatial modes), and with an external recorder, record any or all audio utilizing manual or VOX activation. LEDs indicate which radio(s) are selected. Built-in stereo amplifier, front panel volume and balance controls, and "Mute All" button. Use headphones, speakers or both. 12 VDC. Dim: 8.5" w x 3.3" h x 6.6" d ..... **\$349.99**

**NCS-1514** Wall Power Supply – Designed for use with the 3230 above ..... **\$24.99**

**NCS-P2PH35-A** Cable Kit – Six cables, 6 ft. long, for connecting radios to the 3230. RCA connector on one end and 3.5mm plug on the other **\$26.99**

**NCS-MRX2MS-A** Cable Kit – For interfacing the 3230 to the 3240. Feeds selected audio from the 3230 to speakers or headphones connected to the 3240, has selective muting feature ..... **\$49.99**



**NCS-3240** The Multi-Switcher – Convenient Switching of microphone, headset, CW keyer, foot-switch, etc. to any of four different radios using LED-lighted push buttons. Switch between headset, desk or hand microphone, TNC, phone patch, sound card, etc. Matches impedance, audio level and pin-out of nearly any microphone to any radio 12VDC. Dim: 8.5" w x 3.3" h x 6.2" d ..... **\$299.99**

**NCS-1512** Wall Power Supply  
For the 3240, 12 VDC output @ 300mA.... **\$12.99**

**NCS-LOZNC** Underterminated Cable  
Requires mic connector. Other end is an 8-pin DIN male connector to interface with 3240..... **\$17.99**

See NCS in the Price Guide for Radio Cables for Icom, Kenwood & Yaesu radios

## YAESU INTERNET LINKING KIT



**HRI-100** Amateur Radio Internet Linking Kit  
Uses DTMF signalling to connect HTs or Mobile transceivers to the Internet. A repeater-based system, ideal for emergency communications, "sister-city" link-ups, or accessing repeaters world-wide. Includes CD, manual, power cable, RS-232C/DB-9 data cable, 8-pin mini-DIN plug data cable, 2 sound card cables and WIRESTMII user/server agreement ..... **\$149.99**  
WIRESTMII info at: [www.vxstd.com/en/wiresinfo-en/](http://www.vxstd.com/en/wiresinfo-en/)

## YAESU 50W 2M FM REPEATER



**VXR-7000VA** 50W 2M FM Desktop Repeater  
A long list of built in features that set the standard for a mid-power continuous duty repeater application. Attractive housing and user-friendly controls. In the most demanding environments, the VXR-7000VA will provide years of reliable service. 136-150 MHz; 16 channel synthesized; 10-50W output, adjustable (100% duty); 12.5/25 kHz bandwidth; Programmable 16 tones/codes; ANI/ENI I.D. display\*; CW transmitter I.D.\*; Time-out, hang and guard\* timers; BCLO, BTLO; Selectable repeater or base transceiver mode; Selectable local or remote mode; 115/230 VAC, automatic DC supply back-up. Dim: 4.5" h x 12.8" w x 15.4" d; 22 lbs .... **\$1269.99**  
\* Dealer programmed feature

## ICOM® D-STAR REPEATERS & CONTROLLER



ID-RP4000V

D-STAR repeaters can be tied together to make up the repeater system you want using either Internet or microwave links.

The D-STAR voice and low-speed data signal offers a significant improvement in spectrum efficiency, requiring only a 6 kHz channel instead of the 20, 25, or even 30 kHz of analog wide-band FM. D-STAR repeaters can be interleaved between existing channels or multiple repeaters deployed in the spectrum of only one analog FM repeater.

### Single Modules:

**ID-RP2C** - Repeater Controller (control up to 4 modules) ..... **\$1459.99**

**ID-RP2D** - 1.2 GHz Data module; RX & TX 1240-1300 MHz; Output 9-12W (high)/0.5-1.2W (low); Communication speed: 128 kbps..... **\$1112.99**

**ID-RP2V** - 1.2 GHz Voice Module; RX & TX 1240-1300 MHz; Output 6-12W (high)/0.5-1.2W (low); Communication speed: 4.8 kbps ... **\$1559.99**

**ID-RP2000V** - 2M Voice Module; RX & TX 144-148 MHz; Output 23-30W (high)/2-3W (low); TX speed: 4.8 kbps (voice 2400 bps, FEC 1200 bps, data 952 bps) ..... **\$1399.99**

**ID-RP4000V** - 440 MHz Voice Module; 440-450 MHz; Output 23-30W (high)/2-3W (low); TX speed: 4.8 kbps (voice 2400 bps, FEC 1200 bps, data 952 bps) ..... **\$1399.99**

**ID-RP2L06** - 10 GHz Backbone Module; Microwave link repeater provides linking with another repeater site; RX & TX 10-10.175 GHz; Output 2W; TX speed: 10 Mbps. In order to create a link you must have one ID-RP2L06 at site "A" and one ID-RP2L07 at site "B" ... **\$4999.99**

**ID-RP2L07** ..... **\$4999.99**

**Packages:**  
**ID-RP2C/2D** - ID-RP2C & ID-RP2D **\$2297.99**

**ID-RP2C/2V** - ID-RP2C & ID-RP2V **\$2969.99**

**ID-RP2D/V**  
ID-RP2C, ID-RP2D & ID-RP2V ..... **\$3999.99**



# West Mountain Radio



## RIGblaster

The easiest way to connect a radio to a PC to operate old or new analog and digital modes. Over 100 ham radio programs transmit and receive over 20 different modes. Your radio, a RIGblaster, PC, and appropriate software take the place of old expensive adapters, TNC's, digital voice keyers, microphone equalizers, rig control interfaces, DSP receive filters, internet linking interfaces, automatic beacon clocks and more. Use the processing power built in to your PC instead of a old fashioned outboard box that only does a few things. All RIGblasters are fully ground isolated, comes with an up to date CD collection of ham radio operating software, all the cables and power supply you need to get on the air. Four models to choose from for your operating needs. Use with any USB or RS-232 computer and over 2000 different radios.

**RB/PR/CUSB RIGblaster Pro USB** - The only complete computer interface! Allows you to use all sound card software, computer control a radio, equalize and record a microphone, operate keyboard FSK, CW and more. Built in rig control interface for most radios. Single serial port rig control and sound card operation. Separate CW and FSK keying outputs. Transmit audio muting. Two mic. switchover. For the ham that wishes to do everything that can be done with computer and a radio. For 8-pin and RJ-45 radios as supplied.... **\$279.99**

**RB/PL/CUSB RIGblaster PLUS USB** - Run all sound card modes with fully automatic operation with your mic. No manual switching, no plugging or unplugging. Works with all transmit and receive sound card software. CW or FSK direct keying output. 8-pin and RJ-45 radios as supplied.... **\$149.99**

**RB/NO/CUSB RIGblaster Nomic USB** - Small and inexpensive. Perfect for portable or temporary setups. No power supply needed. Perfect for an internet remote link. Unplug your microphone whenever you wish to use sound card software. For 8-pin and RJ-45 radios as supplied..... **\$59.99**



**RB/PP RIGblaster Plug & Play** - Compatible with over 25 modes and all ham radio sound card programs. Connects through radio's DATA jack and computer's USB port and sound input. A built-in USB to serial converter provides T/R switching, CW keying and CAT/CI-V rig control. Complete with USB cable, computer audio cable & a CD ROM. The plug & play has fully isolated audio and keying, runs from USB power. A special feature for Echolink provides carrier detect on CTS, DSR and DCD. Some radios will require an additional Data Jack Adapter cable; does not work with FT-847 or FT-1000D ..... **\$109.99**

**CI/CBL Rig Control Cable for CI-V Radios...** **\$8.99**  
Auxiliary Jack Adapters:  
**RPA/I13D** 13-pin DIN, for Icom..... **\$9.99**  
**RPA/I8D** 8-pin DIN, for Icom..... **\$9.99**  
**RPA/K13D** 8-pin DIN, for Kenwood..... **\$9.99**

For Rig Compatibility information see the chart at:  
[www.aesham.com/rig.shtml](http://www.aesham.com/rig.shtml)

## MFJ Computer SOUND CARD to RIG Interfaces

Connect the Sound Card in your Computer to your Rig and operate the Digital Modes: CW, RTTY, SSTV, PSK-31, packet, APRS, AMTOR, High Speed Meteor Scatter, others

**1275 Sound Card Interface** - Connect between a transceiver and computer and operate PSK-31, packet, APRS, AMTOR, RTTY, SSTV, CW, HSCW, plus contest voice keying, contest memory keyer, etc. Internal jumpers set up for any radio. Includes AC power supply, all cables and a CD with a collection popular digital mode software. Use model **1275M** for 8-pin round microphone plug or model **1275M** for 8-pin modular plug (RJ-45) ..... each **\$109.99**

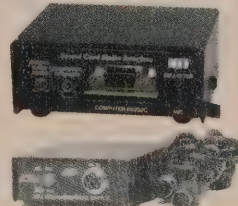


MFJ-1279

**1279 Super Sound Card Interface** - Has all of the features of the MFJ-1275 above, plus: an Auxiliary input jack to switch the sound card to some other device. No more plugging and unplugging. Direct CW/FSK keying jack, headphone jack (use stereo headphones), also turns off external speaker. Plug in a footswitch or other for PTT switch when not using VOX. Plug and play, includes CD with a selection of digital mode software, RS-232 and audio cables, and AC power supply. Use model **1279** for 8-pin round microphone plug or model **1279M** for 8-pin modular (RJ-45) microphone plug ..... each **\$139.99**

**1273B Sound Card Interface** - A basic plug-and-play interface for the digital modes. Has jacks for sound card, radio, speaker and RS-232 (no mic jack or switch). Includes RS-232, audio and mic cables and software. No external power needed. Use model **1273B** for 8-pin round microphone plug, or model **1273BM** for 8-pin modular (RJ-45) microphone plug. ea. **\$59.99**

**1272B TNC/Microphone Switch** - Switch between your TNC and 8-pin microphone by pushing a button. Use model **1272M** for microphones with 8-pin modular (RJ-45) plug..... **Closeout each \$49.99**



## MFJ 16-Element Wi-Fi Yagi



**1800** - Covers 2.4 GHz with 15dBi gain to greatly extend the range of 802.11b/g Wi-Fi signals up to 32 times over an isotropic radiator. Turns an unusable or slow Wi-Fi signal into a solid, fast connection. The highly directional pattern minimizes the possibility of interfering signals. Works with any 802.11b/g or 2.4 GHz device. Unique mount has a built-in standard N-type female connector and screw mount for standard tripod. There are rear holes for wall mounting and bottom holes for desk or shelf mounting. Orientates for either horizontal or vertical polarization. Precision punched aluminum construction. Boom length: 18 inches, Weight: only 2.9 oz..... **\$29.99**

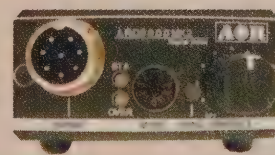
**5606SR** - 6 ft. cable with N type male connector on one end and reverse SMA connector on the other. Connect your MFJ-1800 to any 802.11b/g device with a reverse SMA connector..... **\$24.99**



## Digital Voice Interfaces



**ARD-9800 Digital Voice and Image Interface** Use your conventional SSB transceiver for Digital Voice, Data (3600 bps) and Images while maintaining analog capabilities. No modifications, simply plug it in to the microphone jack, operates with transceiver in SSB mode. An automatic voice signal detector recognizes received signal as analog or digital, automatically switching to the appropriate mode. Uses Open Digital Protocol which is permitted on US Ham bands. Built-in speaker and video output connector which allows external TV monitor viewing. Includes PTT hand microphone, cables and manual. Requires 10-16VDC. Dim: 3.94"w x 1.26"h x 6.14"d ..... **\$529.99**



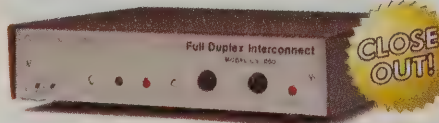
**ARD-9000 MK 2 Digital SSB Interface** - Like the ARD-9800 it works with any existing SSB transceiver without modifications to operate digitally where background noise and static are virtually non-existent and SSB audio is near FM quality. It's Digital Voice only and does not include Data and Images like the ARD-9800; it's also less expensive. However, the ARD-9000 MK 2 and ARD-9800 are compatible with each other and both automatically detect digital signals and decode them while allowing analog signals to pass through. Easily shifts between digital and analog operation. Comes with a speaker-microphone, DC power cable, magnetic mount base and 8-pin microphone plug. It's ready to make the simple connection to your transceiver's microphone input and speaker output. Dim: 2.8"w x 1.3"h x 3.9"d..... **\$359.99**





## INTERCONNECTS

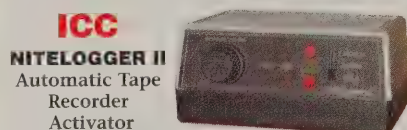
Fully automatic interface between an FM base radio and phone line to initiate and receive phone calls on a mobile or HT. Each contains powerful, microprocessor-controlled features such as 90 memory speed dialer, redial, built-in programming keyboard and digital readout, remote base mode, regenerative tone or pulse dialout, CW ID and toll restrict.



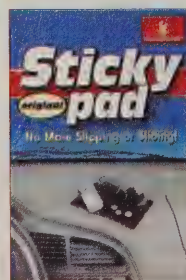
**CS-800 Full Duplex Interconnect** - Operates full or semi-duplex and also has a built-in repeater controller. Simply connects to transceiver mic and speaker jacks. FCC and DOC approved. 12-15 VDC. Dim: 7.875" w x 7.5" d x 2" h; 2.5 lbs.... **C/O \$299.99**



**CS-900 Control Station Simplex Interconnect** For use with any simplex transceiver. Also use thru remotely located repeaters (from base) for added range. Digital voice delay standard. Connects to mic and speaker jacks of simplex transceiver. FCC and DOC approved. (Transceiver switching speed does not affect performance) 12-15VDC. Dim: 7.9" w x 7.5" d x 2" h; 2.5 lbs.... **C/O \$299.99**



**ICC NITELOGGER II Automatic Tape Recorder Activator** Accepts audio output from a radio or scanner and provides voice activated relay operation for a tape recorder. When audio is present, an adjustable relay circuit automatically activates the recorder for the duration of the signal, then releases. Simple connection with supplied cables to radio's external speaker jack, tape recorder remote and microphone inputs. AC adapter included. Dim: 4.37" w x 3.25" h x 2" d.... **\$69.99**



The Sticky Pad holds objects in place on your vehicle dash. No adhesives or magnets. The back of the pad allows it to stay anywhere you place it while also being movable. Durable, reusable.

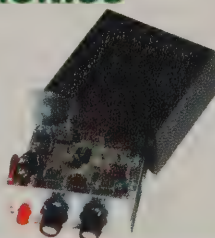
**STI 13810** - Dim: 7.25 in. x 4.13 in ..... **\$5.99**  
**STI 13820** - Dim: 8.75 in. x 6.875 in .... **\$9.99**

## VECTRONICS

### Electronic Kits

Each features a quality epoxy glass PC board with solder mask and screen-printed component key, manual and components.

See VECTRONICS in the Price Guide



# Kantronics



## MULTI-MODE DATA CONTROLLERS

**KPC-3 Plus/128** - 1200 bps port; Packet, GPS/APRS, Host, KISS and WEFAK modes, use with EMWIN; Personal Mailbox (PBS) now supports multiple calls; Remote access, sensing and control with two A/D and two control lines; PBS 100k, expandable with optional 512k RAM..... **\$218.99**

**9612 Plus/128** - 1200 bps port and second port of 4800 - 38400 bps; Most modes/capabilities of the KPC-3 Plus and POCSAG (paging); Unique design allows the addition of another port, high or low speed; Remote access, sensing and control capability; Telemetry transmission capability..... **\$410.99**



**KAM XL Multi-Mode DSP Controller** Kantronics third generation multimode TNC, a state-of-the-art design giving operations on HF, VHF, and UHF, while supporting DSP modems and popular new modes of operation; Packet 300/1200 bps; G-TOR; PACTOR I; AMTOR ARQ (FEC, SELFEC, CCIR 476 and 625); PSK31; RTTY; NAVTEX/AMTEX; ASCII; WEFAK; CW; Dual-port mailbox; Remote SYSOP access; GPS NMEA-0183 compatible; Kantronics Host Mode and KISS..... **\$425.99**



**MT-1200 Mobile Tracker** - A simple and affordable wireless modem able to communicate in a variety of formats including TCP/IP, LSUB, TUPs, AX.25, KISS, XKISS, POLL, LSUB, TUP and PING operating modes. Seamless and transparent radio link substitute. May be used with an external NMEA GPS receiver. 512K memory standard. Dim: 0.95" h x 4.9" w x 3.0" d; 4.8 oz..... **\$239.99**

**MT-1200G Mobile Tracker** - includes an embedded GPS with active magnetic mount antenna for GPS position transmitting and tracking... **\$299.99**

## MFJ VHF DATA RADIOS



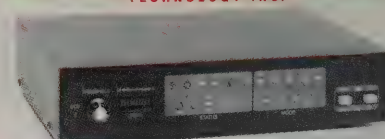
Don't tie up your expensive rig on a single packet channel, check out these low-cost MFJ Data Radios.

**8621 PacketOnly™ 2M Transceiver** - Compatible with all TNCs with hardware DCDs and most TNCs with software DCDs. Features: 1200/9600 baud; 5W output; Low current drain only 15mA on receive and less than 1A on TX. Dim: 5" w x 5" d x 1.5" h; Crystals installed for 145.01 MHz.... **C/O \$129.99**

**8621X2 PacketOnly™ 2M Transceiver** - Ready for APRS use on 144.390 MHz; 5W output ... **\$169.99**

**Available Accessories:**

4110 Portable AC power supply, 5100 Data radio cable (MFJ/TAPR), 5100YV Data radio cable (KAM/KPC3), 5106 Open end (6-pin mini) (Kenwood/Yaesu)



**PK-232/PSK Multimode Data Controller** - The most popular data controller ever built, now with a sound card interface. Offering a new level of performance with accurate DSP filters for internal data modes and dual transformer isolation for sound card modes. 18 DSP filters, twin peak RTTY filters 100 Hz CW filter and adaptive PACTOR filters. Weak signals pop through noise and interference bounces off the filters for cleaner copy than old analog filters. Supports new sound card modes in addition to existing PK-232 modes. Comes with a complete cable and connector set, in addition to Timewave's on-line and telephone support. Requires 11-16V DC @ 800 ma. Dim: 8.25" d x 2.5" h; 3 lbs ..... **\$531.99**

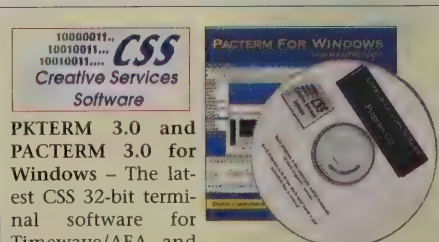
**PK-232/USB** - Same as above except the RS-232 port is replaced by a USB port ..... **\$549.99**



**PK-96/100K 9600/1200 packet TNC** - 9600 and 1200 bps packet-ready; GPS firmware standard; Remotely program; GPS commands; Stand-alone tracking hardware HDLC for accuracy; True DCD hears weak signals; Gateway as a Node; Full MailDrop; AEA host mode; Advanced command set; Identify TCP/IP, TheNet and NetRom; Separate external TX for 9600/1200 bps adjustments; External reset; PC PackRatt Lite™ terminal control and APRS™ software included; WIN and MAC programs available; Requires 12V DC. 128K RAM. Dim: 6.25" w x 7.5" d x 1.375" h; 1.25 lbs.. **\$219.99**

**AC-1 120VAC Adapter** - Supplies 12VDC @ 600 mA for PK-232PSK/USB data controllers.... **\$15.99**

**AC-5 120V Desktop Power Supply** - Supplies 13.8VDC @ 1.7A for the DSP-599zx, PK-232/DSP, DSP-2232, DSP-1232, DSP-232, PK-900, PK-232 PSK/USB, PK-96/100K..... **\$22.99**



**PKTERM 3.0 and PACTERM 3.0 for Windows** - The latest CSS 32-bit terminal software for Timewave/AEA and Kantronics TNCs and computer soundcard interfaces. True multi-tasking in Windows using the standard Windows interface for ease of use. Operates the digital modes (PSK-3, MFSK, MT63, SSTV, CW, RTTY, Amtor, Pactor, VHF/HF Packet) and works with single or dual port TNCs or with computer's soundcard and interface. Requires Timewave/AEA host mode or Kantronics TNC host mode for TNC interface. For soundcard-only mode use any of the popular soundcard interfaces like HamHub, RIGblaster or MFJ 1275/79. Easy logging with built-in logbook feature. On CD ROM.

**PACTERM FOR WI** - Kantronics TNCs **\$99.99**

**PKTERM FOR WIN** - Works with the Timewave/AEA PK-12, 96 and 232 TNCs.. **\$99.99**



# Lido Mounts

Unique "no-holes" mounting solutions for Mobile Electronics.



**LM-400EXP Window Mate Express** – Features an Express Mount attached to the integrated swivel and can be rotated 360 degrees for mounting any electronic device using a button, leather case or OEM clip. Turn the mounting platform upside down to reveal a slot big enough to accommodate a belt clip. It includes complete instructions, two adhesive back buttons and a belt clip ..... **\$19.99**

**LM-600 LoBoy** A low profile mount which will accommodate a variety of devices including hands free phone cradles, iPod holders, XM satellite radios, GPS, Ham Radios. The integrated swivel allows a 30° of adjustment in any direction, securely holding its position without tightening or locking. Attaches to any vehicle without hardware using a strong flexible adhesive mounting pad. Has the AMPS hole pattern used in the wireless industry. Includes a 90° "L" bracket that allows either horizontal or vertical positioning..... **\$19.99**

**LM-700 Ultimount** – Great for handheld devices like a cell phone, Garmin GPS, MP3 player or a Delphi XM radio. This versatile mount enables you to position your handheld electronics right where you want them without interfering with a vehicle's air vents, controls or air bag. Includes a belt clip and two adhesive backed buttons with a prep kit to ensure maximum adhesion ..... **\$24.99**

**LM-800EXP Cup Holder Mount** – Your vehicle's cupholder is a great place to mount either an HT or a remote radio head, and this mount will do it. A wheel control on the top of the base allows the user to adjust the mount to cup holders from 2.5 to 3.25 inches. The Express mount can accommodate button type mounts like the one found on the Yaesu VX-2R or a belt clip. If you want to mount a remote control head like an IC-706, simply remove the express mount which will reveal a plate with a 4 hole AMPS pattern. Attach the remote head bracket to the AMPS plate for quick release use. A tilt swivel knob adjusts the viewing angle. The mount is 5.5 in. tall, installs or removes in seconds ..... **\$19.99**

**LM-900BG The BUG** – For securing small, narrow profile radio control heads for Satellite radios, (both XM and Sirius); VHF radios, HAM radios and more. Features two arms, which rotate forward and backwards on a solid shaft, as well as pivot in and out. This allows for simple alignment to mount to different control heads and match hole patterns. Easy adjustment with a single twist of a thumbscrew. Mounts in a variety of locations, even in a hanging position near the rear view mirror. The flexible adhesive backed mounting pad makes installations fast and simple. Radio head attaches with screws or adhesive tape..... **\$19.99**



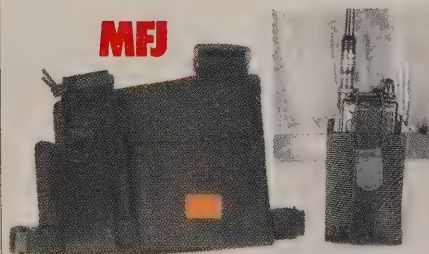
**RT3-4653 Locking GearKeeper™ Two-Way Radio Tether for Handheld** – Prevents loss or damage from the device being dropped. Easy connect and disconnect. Has a retractable 32 in. tether with 24-ounce return force. Full 360° rotating belt clip ..... **\$24.99**

**RT2-4012 Mic Keeper™** – Tired of fumbling with your microphone? Why not grab it, use it, let it go? The retractable 20 in. tether with 12-ounce return force and snap clip, attaches to D-ring or belt loop. The ultimate way to keep track of your microphone ..... **\$19.99**

## Communications Outfitters



**EXP-1 Expedition Pack** – Designed for the Yaesu FT-817. Allows backpack style or table top operation with complete access to all controls, front and rear. A zippered pouch on both sides securely holds most any antenna in the collapsed position for travel. Radio compartment is divided so the top section will hold the FT-817, and the lower compartment can be used for an amplifier, tuner, accessories, or another radio. Made of high quality, durable nylon with plastic panels for rigidity and water-resistant for added rig protection. Dim: 12"w x 4"h x 15"d.. **\$99.99**



**18 HamGear™ Tactical Chest Harness** (left) Perfect for rugged use, emergency radio operators and on-the-go hams! Use it for portable hamfest use, DXpeditions, field day, biking, hiking, etc. Made of durable heavy duty twill burlap, this interwoven fabric is water resistant and will cushion blows and scrapes. Adjustable shoulder straps. Harness is firmly held in place by stretchable inter-woven elastic belt with snap hook and adjustable sliders supported by nylon straps. An additional 5 x 7 inch cargo pocket holds another radio, accessories, maps, etc..... **\$29.99**

**15 HamGear™ Belt Radio Holder** (right) A durable twill burlap pocket with elastic cord and velcro closure that easily stretches over any HT. Your belt slides easily through the attached 2 x 3 inch loop ..... **\$14.99**

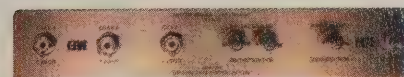
## Q-VIEW QSL Card Holders



Proudly display and protect your favorite QSL cards in these 12" x 40" clear plastic hanging holders. Each holds (20) 3.5" x 5.5" cards. Opens at center to receive cards easily. The pack of three will display 60 cards .... **ART QSLCARDHOLDE** (3 pack) **\$18.99**

## 890 DX Beacon

**Monitor** – Checks worldwide band conditions in just three minutes. It's a stand alone timing device using a microprocessor and built-in WWVB atomic clock to keep track of the worldwide DX beacon activation sequence. LED indicators positioned across a world map show which of the 18 world beacons is active at any given time. Storing the beacon frequencies in your transceiver memory allows quick band switching as one listens for beacon transmissions. When a beacon is heard on any of the frequencies, that band is open to the location indicated by the corresponding LED. No transceiver connection required. Uses 12VDC or 110VAC with the optional MFI-1312D. Dim: 6.75"w x 5.25"h x 3"d ... **\$109.99**



**4602 Antenna Feedthrough Panel** – Simply place in window sill (up to 48 in. wide) and close the window down on it. You can feed three coax-fed antennas, balanced line, random wire and a ground into the shack without drilling through walls. Made of 3/4 inch pressure-treated wood sandwiched between two stainless steel plates. Has three Teflon® SO-239 coax feedthrough connectors, three ceramic balanced line/random wire feedthrough insulators and ground connection. Dim: 48"w x 3.5"h x 0.75"d ..... **\$59.99**



## ATV Transmitter

## 8708 Micro ATV

**Transmitter** – Transmits clear Amateur Television audio and video signal on 433.97 MHz (cable channel 58, 59 or 60). Plug in an antenna and a video source (video camera, camcorder or VCR). With a TV set or down-converter you'll have a complete low power ATV station. Puts out a 50 to 100mW signal with a range of up to 1.8 miles with a 3-element beam. Use a UHF amplifier you can enjoy ATV communications over an extended range with other ATV hams. Uses a 9V battery ..... **\$159.99**



# MINI COOPER SHOWN WITH CP-5M UNIVERSAL LIP MOUNT ON THE DOOR EDGE.

All the mounts attach to van doors, truck side doors, SUV doors, etc... and require no holes. Includes 16' 6" deluxe cable assy w/18" mini RG-1888A/U type coax for weather seal entry.

Choose a mount depending on the antenna size and vehicle mounting location space.



## For Small Antennas & Limited Space

MODEL / ANT CONN / COAX CONN

**Maldol EM-5M** SO-239 / PL-259

Footprint: 1.1" x .75"

Max Antenna: 40"

## For Medium Size Antennas

MODEL / ANT CONN / COAX CONN

**COMET CP-5M** SO-239 / PL-259

**COMET CP-5NMO** NMO / PL-259

Footprint: 3.4" x 1.25"

Max Antenna: 60"

## For Tall or Multi-band HF Antennas

MODEL / ANT CONN / COAX CONN

**COMET HD-5M** SO-239 / PL-259

**COMET HD-5 3/8-24** 3/8-24 / PL-259

Footprint: 3.75" x 1.1"

Max antenna: 80"

# Life is a JOURNEY. Enjoy the ride!

## COMET BNC-24 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz

• Gain: 2.15/3.5dBi • Length: 17" • Conn: BNC Super flexible featherweight whip

## COMET SMA-24 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz

• Gain: 2.15/3.5dBi • Length: 17" • Conn: SMA Super flexible featherweight whip

## COMET SMA-503 DUAL-BAND 2M/70CM HT ANTENNA RX range: 100-1200MHz

• Length: 8.75" • Conn: SMA

**Maldol MH-209** (BNC Conn) **MH-209SMA** (SMA Conn) **2M/70CM DUAL-BAND HT ANTENNAS**  
3" length, soft rubber cover. Good performance in a small package!

### COMET NEW! CSB760A DUAL-BAND 2M/440MHz WIFOLD-OVER

Gain & Wave: 146MHz 3.6dBi 1/2 wave, 446MHz 6.1dBi 5/8 wave x 2 • VSWR: 1.5:1 or less • Length: 42" • Conn: PL-259 • Max Pwr: 150W

### COMET NEW! CSB770A DUAL-BAND 2M/440MHz WIFOLD-OVER

Gain & Wave: 146MHz 4.4dBi 5/8 wave center load, 446MHz 6.9dBi 5/8 wave x 2 center load • VSWR: 1.5:1 or less • Length: 51" • Conn: PL-259 • Max Pwr: 150W

### COMET NEW! CSB790A DUAL-BAND 2M/440MHz WIFOLD-OVER

Gain & Wave: 146MHz 5.1dBi 7/8 wave center load, 446MHz 7.7dBi 5/8 wave x 3 center load • VSWR: 1.5:1 or less • Length: 62" • Conn: PL-259 • Max Pwr: 150W

### Maldol AX-50 DUAL-BAND 2M/440MHz

Gain & Wave: 2M 1/4 wave • 70cm 5.0dBi 9/8 wave • Length: 21" • Conn: PL-259 • Max Power: 60W

### Maldol AX-75 DUAL-BAND 2M/440MHz WIFOLD-OVER

Gain & Wave: 2M 1/2 wave center load 3.2dBi • 70cm 5/8 wave x 2 5.7dBi • Length: 30" • Conn: PL-259 • Max Power: 60W

### Maldol AX-95 DUAL-BAND 2M/440MHz WIFOLD-OVER

Gain & Wave: 2M 1/2 wave center load 3.3dBi • 70cm 5/8 wave x 2 5.8dBi • Length: 38" • Conn: PL-259 • Max Power: 60W

### COMET B-10/B-10NMO DUAL-BAND 2M/440MHz

Gain & Wave: 146MHz 0dBi 1/4 wave • 446MHz 2.15dBi 1/2 wave • Length: 12" • Conn: B-10 PL-259, B-10NMO - NMO style • Max Pwr: 50W

### COMET SBB-2/SBB-2NMO DUAL-BAND 2M/440MHz

Gain & Wave: 146MHz 2.15dBi 1/4 wave • 446MHz 3.8dBi 5/8 wave center load • VSWR: 1.5:1 or less • Length: 18" • Conn: SBB-2 PL-259, SBB-2NMO NMO style • Max Pwr: 60W

### Maldol EX-107RB / EX-107RBNMO DUAL-BAND 2M/440MHz

Gain & Wave: 146MHz 2.6dBi 1/2 wave • 446MHz 4.9dBi 5/8 wave x 2 • VSWR: 1.5:1 or less • Length: 29" • Conn: EX-107RB PL-259, EX-107RBNMO NMO style • Max Pwr: 100W

### COMET SBB-5/SBB-5NMO DUAL-BAND 2M/440MHz WIFOLD-OVER

Gain and wave: 146MHz 3dBi 1/2 wave • 446MHz 5.5dBi 5/8 wave x 2 • Length: 39" • Conn: SBB-5 PL-259, SBB-5NMO - NMO style • Max Pwr: 120W

### COMET SBB-7/SBB-7NMO DUAL-BAND 2M/440MHz WIFOLD-OVER

Gain & Wave: 146MHz 4.5dBi 6/8 wave • 446MHz 7.2dBi 5/8 wave x 3 • Length: 58" • Conn: SBB-7 PL-259, SBB-7NMO - NMO style • Max Pwr: 70W

**COMET**  
and **Maldol Mobile**

For a complete catalog, call or visit your local dealer.

Or contact NCG Company, 15036 Sierra Bonita Lane, Chino, CA 91710

909-393-6133 • 800-962-2611 • FAX 909-393-6136 • [www.natcommgroup.com](http://www.natcommgroup.com)



# Life is a JOURNEY. Enjoy the ride!

**Maldol MH-511 TRI-BAND 6M/2M/70CM HT ANTENNA** • Length: 4' • Conn: Male SMA

**Maldol MH-510 TRI-BAND 6M/2M/70CM HT ANTENNA** • Gain: 0/0.3/2dBi • Length: 20.75' • Conn: Male SMA

**COMET HT-224 TRI-BAND 2M/220/70CM HT ANTENNA** • Gain: 1 3/1 4/1 8dBi • Length: 11.5' • Conn: Male SMA

**Maldol MH-610 TRI-BAND 2M/220/70CM HT ANTENNA** • Gain: 0/1 8/3 2dBi • Length: 14' • Conn: Male SMA

**COMET SBB-224 / SBB-224NMO TRI-BAND 2M/220/440MHZ WITH FOLD-OVER** • Gain & Wave: 146MHz: 2.15dBi 1/4 wave • 220MHz: 3.5dBi 5/8 wave • 446MHz: 6dBi 5/8 wave x 2 • Length: 36" • Conn: PL-259 or NMO style • Max Pwr: 100W

**Maldol EX-510B / EX-510BNMO TRI-BAND 6M/2M/440MHZ WITH FOLD-OVER** • Gain & Wave: 52MHz: 1/4 wave • 146MHz: 2.15dBi 1/2 wave • 446MHz: 5.5dBi 5/8 wave x 2 • VSWR: Length: 37" • Conn: PL-259 or NMO style • Max Pwr: 50W FM

**COMET SB-15 TRI-BAND 6M/2M/440MHZ WITH FOLD-OVER** • Gain & Wave: 52MHz: 0dBi 1/4 wave • 146MHz: 4.5dBi 6/8 wave • 446MHz: 7.2dBi 5/8 wave x 3 • Length: 58" • Conn: PL-259 • Max Pwr: 120W

**COMET UHV-4 QUAD-BAND 10M/6M/2M/440MHZ WITH FOLD-OVER** • Gain & Wave: 10M & 6M: 1/4 wave • 2M: 2.15dBi 1/2 wave • 70cm: 5.5dBi 5/8 wave x 2 • Length: 55" • Max Pwr: 10M: 120W SSB 6M: 2M: 100W FM • Conn: PL-259 • 10M and 6M bands have individual tuning stubs

**COMET UHV-6 HF/6M/2M/440MHZ MOBILE ANTENNA** • 80"/20"/17"/40"/15"/10"/6"/2M/70cm Mobile antenna with fold-over hinge • Gain & Wave: 2M: 2.15dBi 1/2 wave • 70cm: 5.5dBi 5/8 wave x 2 • VSWR: HF: 1.5:1 or less • 6M: 70cm: 1.5:1 or less • Length: 44" (mm) • 78" (max) • Max Pwr: HF: 120W SSB 6M: 200W SSB 100W FM • 2M: 70cm: 100W FM • \*L-14 optional 20M coil • \*L-18 optional 17M coil or optional 80/75M coil • Features: 6M/2M: 70cm operation is constant • You CHOOSE the HF coils you want to add, up to four stock or optional • One vertical, the rest horizontal • Easily mounts to standard trunk/door mount in minutes • Economical • Fold-over hinge built in • Select the duplexer or triplexer for your specific radio(s) • CF-706A, CF-530, CFX-514N

## UHV-6 in fold-over position.

Fold-over hinge included for easy entry to garage, parking structure, drive-thru etc. UHV-6 / HMC-6S fold-over hinge has a threaded collar to lock the hinge vertically in place. It can't fold-over by itself at highway speed!

## Maldol HMC-6S • 40/20/15/10/6/2/440MHZ MOBILE ANTENNA WITH FOLD-OVER

Gain & Wave: HF: 1/4 wave • 2M: 2.15dBi 1/2 wave • 70cm: 5.3dBi 5/8 wave x 2 • VSWR: HF: 6M: 1.5:1 or less • 2M: 70cm: 1.5:1 or less • Length: 66" • Max Pwr: HF: 120W SSB 6M: 2M: 100W FM • 10M: 70cm: optional 40M coil

## MINI COOPER SHOWN WITH CP-5M UNIVERSAL LIP MOUNT ON THE DOOR EDGE.

All the mounts attach to van doors, truck side doors, SUV doors, etc. and require no holes. Includes 16' 6" deluxe cable assy w/18' mini RG-1888AU type coax for weather seal entry.

Choose a mount depending on the antenna size and vehicle mounting location space.



## For Small Antennas & Limited Space

MODEL / ANT CONN / COAX CONN

**Maldol EM-5M** SO-239 / PL-259  
Footprint: 1.1" x .75"  
Max Antenna: 40"

## For Medium Size Antennas

MODEL / ANT CONN / COAX CONN

**COMET CP-5M** SO-239 / PL-259  
**COMET CP-5NMO** NMO / PL-259  
Footprint: 3.4" x 1.25"  
Max Antenna: 60"

## For Tall or Multi-band HF Antennas

MODEL / ANT CONN / COAX CONN

**COMET HD-5M** SO-239 / PL-259  
**COMET HD-5-18-24** 3/8-24 / PL-259  
Footprint: 3.75" x 1.1"  
Max antenna: 80"

**COMET**  
and **Maldol Mobile**

For a complete catalog, call or visit your local dealer.

Or contact NCG Company, 15036 Sierra Bonita Lane, Chino, CA 91710

909-393-6133 • 800-962-2611 • FAX 909-393-6136 • [www.natcommgroup.com](http://www.natcommgroup.com)



## UNIVERSAL LIP MOUNTS WITH COAX CABLE COMBINATIONS

Several mounts with coax combos are available to choose from depending on your vehicle's available mounting space and antenna size.

No holes to drill, held securely in place with set screws and adjust in multiple planes. Attach to virtually any lip edge that is 1/4" thick or less: trunk lids, van doors, SUV doors, truck doors, hoods, etc...

Deluxe low loss cable assy included for easy entry thru the weather seal without causing water leaks, wind noise, and/or cable damage.

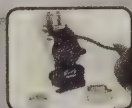
**Max power:** HF 200W  
VHF 75W  
UHF 50W

### For small antennas & limited space

MODEL / ANT CONN / COAX CONN

**Maldol EM-5M** SO-239 / PL-259

Footprint: 1.1" x .75"  
(Less than 1 sq inch!)  
Max Antenna: 40"



### For medium size antennas

MODEL / ANT CONN / COAX CONN

**COMET CP-5M** SO-239 / PL-259

**COMET CP-5NMO** NMO / PL-259

Footprint: 3.4" x 1.25"  
Max Antenna: 60"



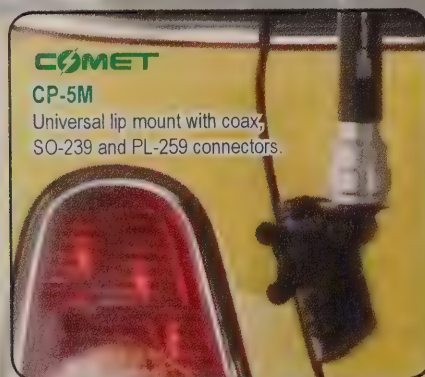
### For tall or multi-band HF antennas

MODEL / ANT CONN / COAX CONN

**COMET HD-5M** SO-239 / PL-259

**COMET HD-5 3/8-24** 3/8-24 / PL-259

Footprint: 3.75" x 1.1"  
Max antenna: 80"



**COMET**

**CP-5M**

Universal lip mount with coax,  
SO-239 and PL-259 connectors.

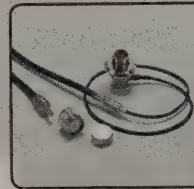
# Life is a JOURNEY. Enjoy the ride!

Combine the coax style and length you need with a bracket from below.  
(assemblies also available with N-connectors)



**COMET**  
**3D5M / 3D4M**

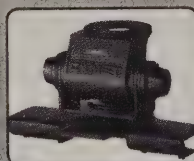
**Standard low loss cable assy.**  
Gold plated SO-239 / PL-259  
connectors.  
3D5M length 16' 6"  
3D4M length 13'



**COMET**  
**CK-3M5 / CK-3M**

**Deluxe low loss cable assy.**  
Includes 18" of mini RG-188AU type  
coax for easy entry from a lip mount  
without causing water leaks,  
wind noise or coax damage.  
CK-3M5 length: 16' 6"  
CK-3M length: 9' 9"

Choose the bracket that best fits your antenna and vehicle. All have multiple adjustments  
and fit virtually any lip 1/4" thick or less. Soft rubber protects vehicle finish.



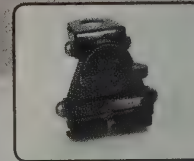
**COMET**  
**RS-840**

Heavy-duty, 2 adjustment  
planes. For HF and heavier  
antennas up to 80".



**COMET**  
**RS-730**

Heavy-duty, 4 adjustment  
planes, up to 60" antenna.



**COMET**  
**RS-720 / RS-720NMO**

Med-duty, 3 adj planes, 60" ant.  
RS-720: Accepts SO-239 conn  
RS-720NMO: Accepts NMO conn



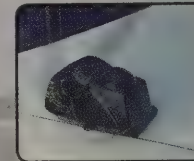
**COMET**  
**RS-520**

Light-duty, 3 adjustment  
planes, up to 45" antenna.



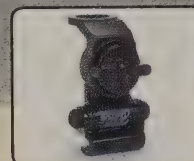
**Maldol**  
**PRM-T**

Heavy-duty, 3 adjustment  
planes, up to 80" antenna.



**Maldol**  
**MK-30H**

12VDC motorized mount. Mounts  
to vertical or horizontal door lip.  
Up to 70"/19 oz. antenna.



**Maldol**  
**EM-B80**

Light-duty, 2 adjustment  
planes, up to 40" antenna.



**COMET**  
**GRB-5M**

Trunk lip mount, low-profile, black  
anodized stainless steel. Offset washers  
provide up to 17 deg. vertical adjustment

of antenna. 16' 9" of deluxe cable included, 18" of mini RG-188AU  
style coax for easy entry thru the weatherseal. Gold-plated SO-239/  
PL-259 connectors.

The rear doors on newer trucks are the perfect place to mount  
antennas • No holes to drill • Above roof line • Easy access • When  
mounting to a van, SUV, truck, etc., use the CP-5M or build your own  
system with components shown above. There are several mount  
sizes, coax diameters and coax lengths from which to choose.



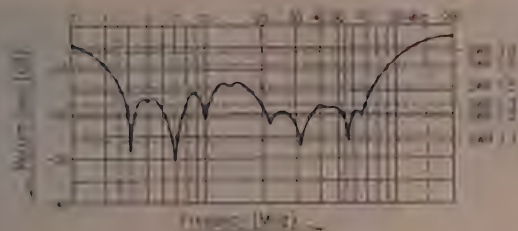
**COMET**  
and **Maldol Mobile**

For a complete catalog, call or visit your local dealer.  
Or contact NCG Company, 15036 Sierra Bonita Lane, Chino, CA 91710  
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# Life is a JOURNEY. Enjoy the ride!

**COMET**  
and **Maldol**  
**Base Antennas**



CHA-250B VSWR graph

Time person can effortlessly raise the antenna at night when no one can spot it, and take it down before daybreak. This antenna is also a great choice for portable operations, such as quick and easy mini-Expedition to a campground or a nice tropical island. In short, the Comet CHA-250B is simple to assemble, painless to elevate and is easy on the eyes, while at the same time getting you on 5 meters thru 80 meters without the requirement of an antenna tuner and ground plane. You'll even be able to work some DX while you're at it! — Dan Dankert N6PEQ

## COMET NEW CHA-250B BROADBAND HF/6M GROUND-PLANE ANTENNA

A newly designed broadband vertical with NO GROUND RADIALS! EXTREMELY easy to assemble, requires no tuning or adjustments and VSWRs under 1.5:1 from 3.5-57MHz. TX: 3.5MHz - 50MHz • RX: 2.0-50MHz • VSWR is 1.5:1 or less, combination • Max Power: 250W SSB/125W FM • Impedance: 50 Ohm • Length: 23' 5" • Weight: 7 lbs. 1 oz. • Conn: SO-239 • Mast Req'd: 1" - 2" dia. • Max wind speed: 57MPH

## COMET GP-15 TRI-BAND 52/146/446MHZ BASE REPEATER ANTENNA

Gain 3 Wave: 50MHz-3.0dB 5/8 wave • 146MHz 6.2dB 5/8 wave • 2 • 446MHz 8.8dB 5/8 wave • 4 • Max Pwr: 150W • Length: 7' 11" • Weight: 3lbs. 1oz. • Conn: Gold-plated SO-239 • 2MHz band-width after tuning (AM) • Construction: Single-piece fiberglass

## COMET CX-333 TRI-BAND 146/220/446MHZ BASE REPEATER ANTENNA

Gain 8 Wave: 146MHz 5.5dB 5/8 wave • 2 • 220MHz 7.8dB 5/8 wave • 3 • 446MHz 9.0dB 5/8 wave • 5 • Max Pwr: 120W • Length: 10' 2" • Weight: 3lbs. 1oz. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

## COMET GP-3 DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA

Gain 8 Wave: 146MHz 4.5dB 8/8 wave • 446MHz 7.2dB 5/8 wave • 3 • Max Pwr: 200W • Length: 5' 11" • Weight: 2lbs. 9ozs. • Conn: Gold plated SO-239 • Construction: Single-piece fiberglass

## COMET GP-6 DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA

Gain 5 Wave: 146MHz 6.5dB 5/8 wave • 2 • 446MHz 9.0dB 5/8 wave • 5 • Max Pwr: 200W • Length: 10' 2" • Weight: 3lbs. 8ozs. • Conn: Gold-plated SO-239 • Construction: Fiberglass, 2 Sections

## Maldol HVB-8 ULTRA-COMPACT 8 BAND HF/VHF/UHF VERTICAL ANTENNA

80/40/20/15/10/6/2M/70cm Only 1/2 the traditional size and weight of vertical HF antennas, and it includes 2M/70cm! Unique radial system rotates for isotropic installations, the radials can all be rotated to one side • HF and 6M: 1/4 wave-length • Gain 2M: 1/2 wave-length, 2.15dB • Conn: 70cm: Two 5/8 waves in phase, 5.5dB • Impedance: 50 Ohm • Max Power: HF: 200W SSB • 6M-70cm: 150W FM • Conn: SO-239 • Weight: Only 5/8" • Weight: 5lbs. 7ozs

## COMET GP-9/GP-9N DUAL-BAND 146/446MHZ BASE REPEATER ANTENNA

BEST SELLER • Gain 3 Wave: 146MHz 8.5dB 5/8 wave • 3 • 446MHz 11.9dB 5/8 wave • 8 • Max Pwr: 200W • Length: 16' 9" • Weight: 5lbs. 11ozs. • Conn: GP-9 Gold-plated SO-239 • GP-9N Gold-plated N-type female • Construction: Fiberglass, 3 Sections

## COMET NEW H-422 QUAD-BAND HF DIPOLE

Compact 40/20/15/10M "V" or Horizontal Dipole • Max power: 1KW SSB • Length "V": Dipole: 24' 3" • Horizontal Dipole: 33' 10" • Shipping length: 79" • Weight: 11 lbs 14 ozs • Wind Load: 3.02 sq feet • Required mast size: 1.5" • 2.5" diameter • CBL-2000 2kW Balun included • Simple installation, and tuning and profile change

**COMET**  
and **Maldol** Antennas

For a complete catalog, call or visit your local dealer  
Or contact NCG Company, 15036 Sierra Bonita Lane, Chino, CA 91710  
909-393-6133 • 800-962-2611 • FAX 909-393-6136 • [www.natcommgroup.com](http://www.natcommgroup.com)



# ACCLAIMED AS THE TECHNOLOGICAL LEADER IN SINGLE & MULTIBAND ANTENNAS

Wide-band Performance • Highest Gain • Factory Adjusted-No Tuning Required • UPS Shippable  
High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware • Mounts & U-Bolts Included

## Ruggedized Base/Repeater Antennas X500HNA - X50NA - X30A

### X500HNA

Diamond Antenna's best base station repeater antenna. Designed for strength and performance, the X500HNA is pretuned to achieve maximum gain in both the 2m and 70cm amateur bands.

#### Features

- Heavy duty fiberglass radome
- Overlapping outer shells for added strength
- Stainless steel mounting hardware and radials
- Strong, waterproof joint couplings
- Type-N Cable connection
- Wide band performance

#### Specifications:

Frequency: 2m: 144-148 MHz 70cm: 440-450 MHz  
Gain: 2m: 8.3 dB 70cm: 11.7 dB  
Power: 200 watts  
Wind Rating: 90 MPH (no ice)  
Height: 17.8 feet

### X50NA

The X50NA is an excellent choice where ruggedness is required in a medium-gain, dual-band, base/repeater application.

#### Features

- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel mounting hardware and radials
- Type-N Cable connection
- Compact size for easy mounting/installation

#### Specifications:

Frequency: 2m: 144-148 MHz 70cm: 440-450 MHz  
Gain: 2m: 4.5 dB 70cm: 7.2 dB  
Power: 200 watts  
Wind Rating: 135 MPH (no ice)  
Height: 5.6 feet

### X30A

The X30A works well in areas where height and/or antenna restrictions are an issue.

#### Features

- Wide frequency bandwidth
- Heavy duty fiberglass radome
- Stainless steel hardware
- UHF Cable connection
- Compact size for easy installation

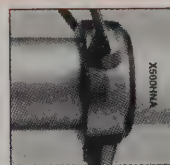
#### Specifications:

Frequency: 2m: 144-148 MHz 70cm: 440-450 MHz  
Gain: 2m: 3.0 dB 70cm: 5.5 dB  
Power: 150 watts  
Wind Rating: 135 MPH (no ice)  
Height: 4.5 feet

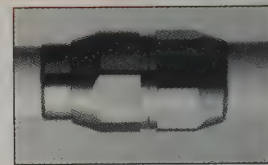
## X500HNA and X700HNA



COAX CONNECTION  
AT BASE END



HEAVY DUTY BASE/  
RADIAL ASSEMBLY



STRONG JOINT  
COUPLINGS

## Mono-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. FT.	RATED WIND MPH (No. Ice)
CP22E <sup>1</sup>	144	6.5	200	UHF	9.0	70
DPGH62 <sup>1</sup>	50	6.0	200	UHF	21.0	78
F22A	144	6.7	200	UHF	10.5	112
F23A	144	7.8	200	UHF	15.0	90
BC200 <sup>*</sup>	430-490	6.5	200	UHF	5.6	130
F718A	440	11.5	250	N	15.0	90
F1230A II	1.2 GHz	13.8	100	N	12.0	112
G200	2.4 GHz	11 dBi	—	N	4.8	135

## Dual-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. FT.	RATED WIND MPH (No. Ice)
X30A	144/440	3.0/5.5	150	UHF	4.5	135
X50A	144/440	4.5/7.2	200	UHF	5.6	135
X50NA	144/440	4.5/7.2	200	N	5.6	135
X200A	144/440	6.0/8.0	200	UHF	8.3	112
X300A	144/440	6.5/9.0	200	UHF	10.5	112
X300NA	144/440	6.5/9.0	200	N	10.5	112
X510MA	144/440	8.3/11.7	200	UHF	17.2	90
X510NA	144/440	8.3/11.7	200	N	17.2	90
X510HDM	144/440	8.3/11.7	330/250	UHF	17.2	90
X500HNA	144/440	8.3/11.7	200	N	17.8	90+
X700HNA	144/440	9.3/13.0	200	N	24.0	90

## Tri-Band Base/Repeater Antennas

MODEL	BAND (MHz)	GAIN (dB)	WATTS	CONN.	HT. FT.	RATED WIND MPH (No. Ice)
V2000A <sup>35</sup>	52/144/440	2.1/6.2/8.4	150	UHF	8.3	110
X3200A <sup>*</sup>	146/222/440	6.0/7.8/8.0	100/200	UHF	10.5	112
X6000A	144/440/1240	6.5/9.0/10.0	100/60	N	10.5	112

BAND: 144=144-148 MHz, 222=222-225 MHz.  
420=420-430 MHz, 430=430-440 MHz.  
440=440-450 MHz, 1240=1240-1300 MHz.

Power rating should be reduced in repeater service.

NOTES: <sup>1</sup> Heavy duty aluminum construction.

<sup>2</sup> X510N: 144-147/430-440 MHz.

<sup>3</sup> 1/4", rated in dBi.

<sup>4</sup> 2m: 146-148; 100 watts

<sup>5</sup> 52-54 MHz, only

<sup>6</sup> Tunable for 10MHz BW.

See price schedule for options



# MULTIBAND VERTICAL & YAGI ANTENNAS

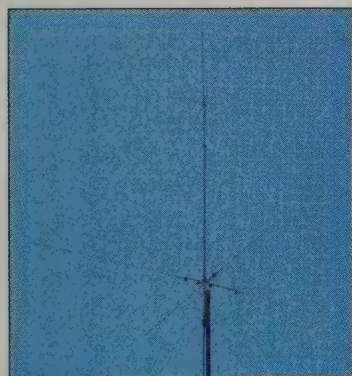
Wide-band Performance • Highest Gain • Factory Adjusted-No Tuning Required • UPS Shippable  
High Wind Rating • Fiberglass Radome • DC Grounded • Stainless Hardware • Mounts & U-Bolts Included

## BB7V Multiband Vertical Antenna



Diamond's new **BB7V** multiband vertical antenna provides coverage from 2 MHz to 30 MHz without radials. The BB7V has 6 telescoping sections that nest in each other with a collapsed length of 5 feet and extends to a length of 22 feet when fully deployed. These sections are self locking (no hardware to lose) and can be raised or lowered in less than a minute. For permanent use, each section can be locked in place with a single screw. The extreme ease of raising and lowering this 4.5 pound antenna will make it a favorite for those who have antenna restrictions or travelers wanting a quick and easy wide band antenna solution.

## CP725H Quad Band Vertical Antenna



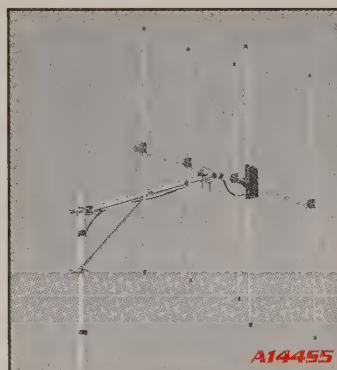
Diamond's new **CP725H** is a four band (6M, 10M, 15M and 40M) vertical antenna with trap radials. Its light weight, 6.6 pounds, makes it very manageable during the installation process and will allow for a simple mast solution. It is 11.8 feet tall with 71" long radials that can be mounted 360 degrees around the antenna or concentrated on one side if you need to mount it close to a structure.



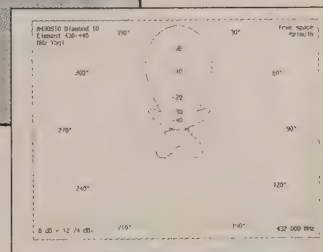
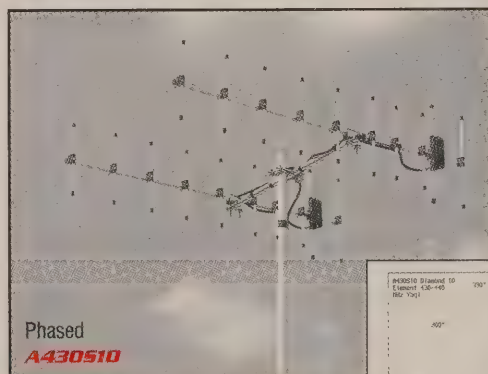
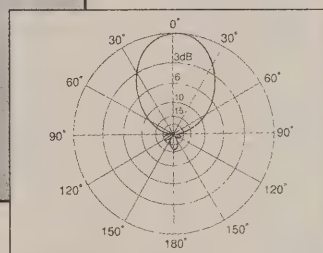
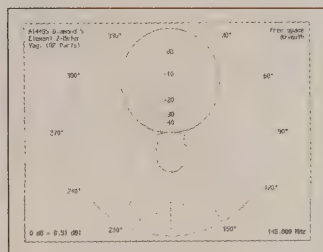
Because of its light weight, and the ability to concentrate radials on one side, the CP725H could be used in an antenna restricted situation where the mast was lowered on its side during daylight and raised while operating during the evening.

### Vertical Antennas

MODEL	FREQ (MHz)	IMPEDANCE	WATTS (PEP)	CONN.	BOOM LNTH.	WEIGHT
BB7V	2-30 (w/TUNER)	50Ω	250	UHF	60"/22'	4.5 lbs.
CP725H	6m/10m/15m/40m	50Ω	200/400/500/500	UHF	11.8'	6.6 lbs.



## Yagi Antennas



### Yagi Antennas

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN.	BOOM LNTH.	ELEMENT PHASING
A502HB	50	6.3	400	UHF	2.6'	2 element
A144S5	144	9	100	UHF	37.5'	5 element
A430S10	432	13	100	UHF	43"	10 element
A430S15	432	14.8	100	UHF	89"	15 element



## DIAMOND'S STATE-OF-THE-ART VHF/UHF &amp; HF/VHF MOBILE ANTENNAS

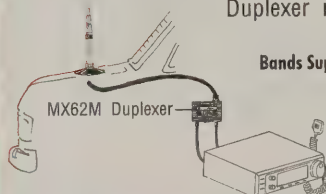
Maximum Performance Without Compromise

**HV7A Mobile Antenna System**  
For New HF/VHF transceivers

(Such as: IC706 &amp; IC7000 series, FT100, FT857 &amp; NEW FT8900R)

The HV7A has 5 band capability: 70cm, 2m, 6m, plus 2 HF bands through use of loading coils. Foldover feature allows for easy access into low over-head buildings. Ideal for users of IC706 & IC7000 series, FT100, FT857 and New FT8900R radios.

Duplexer may be required for some radios.



Recommended Antenna Mounts:  
K400C, K400S, K600S or K600M

**Bands Supplied:**

**Power, P.E.R.:** HF 120w/VHF 200w  
**Mount Connection:** UHF  
**Length:** 54"  
**SWR:** 1.5:1 nominal  
**Opt. Loading Coils:** HVC7 40m  
HVC14 20m  
HVC18 17m  
HVC21 15m

**FOLD-OVER**

One-Touch Fold-Over Feature.\*\*

MODEL	BAND (MHz)	GAIN (dBi)	WATTS (PEP)	CONN.	HT. IN.	ELEMENT PHASING 1/4λ rated in dBi.
M285S* <sup>10</sup>	2m	3.4	200	UHF	52.4	5/8λ
M285SNMO* <sup>10</sup>	2m	3.4	200	NMO	52.4	5/8λ
NR22L*	2m	6.5	100	UHF	96.8	2-5/8λ
HF6FX**	6m	2 dBi	250	UHF	40	1/4λ
HF50CX**	6m	3.5 dBi	200	UHF	75	3/8λ
M685S**	6m	2.15 dBi	200	UHF	52.4	1/4λ
M685SNMO**	6m	2.15 dBi	200	NMO	52.4	1/4λ
NR140BNMO	1-1/4m	4.0	150	NMO	37	1/2λ+1/4λ
NR124NMO	23cm	8.4	100	NMO	25	4-5/8λ
MG200	2.4GHz	7 dBi	-	N	23.6	3-1/2λ
CR270A	2m/70cm	2.15/3.4	50	UHF	17	1/4λ, 5/8λ
MR77	2m/70cm	2.15/3.4	70	MAG	20	1/4λ, 1/2λ
MR77SMA	2m/70cm	2.15/3.4	70	MAG	20	1/4λ, 1/2λ
NR72BNMO**	2m/70cm	2.15	100	NMO	13.8	1/4λ, 1/2λ
NR73BNMO	2m/70cm	2.15/5.3	100	NMO	33.5	1/2λ, 1-5/8λ
NR770HA <sup>7</sup>	2m/70cm	3.0/5.5	200	UHF	40.2	1/2λ, 2-5/8λ
NR770HNMO <sup>1</sup>	2m/70cm	3.0/5.5	200	NMO	38.2	1/2λ, 2-5/8λ
NR7900A*	2m/70cm	3.7/6.4	300/250	UHF	57	1/4λ+1/2λ, 3-5/8λ
SG7000A**	2m/70cm	2.15/3.8	100	UHF	18.5	1/4λ, 6/8λ
SG7500A	2m/70cm	3.5/6.0	150	UHF	40.6	1/2λ, 2-5/8λ
SG7500NMO	2m/70cm	3.5/6.0	150	NMO	41.0	1/2λ, 2-5/8λ
SG7900A*	2m/70cm	5.0/7.6	150	UHF	62.2	7/8λ, 3-5/8λ
SG7900ANMO*	2m/70cm	5.0/7.6	150	NMO	62	7/8λ, 3-5/8λ
SGM510	2m/70cm	2.15/5.5	100	UHF	37	1/2λ, 2-5/8λ
CR320A**	2m/1-1/4m/70cm	2.15/3.8/5.5	200/100/200	UHF	37.4	1/4λ, 1/2λ
CR320BNMO**	2m/1-1/4m/70cm	2.15/3.8/5.5	200/100/200	NMO	38	2-5/8λ
NR2000NA	2m/70cm/23cm	3.15/6.3/9.7	100	N	39	1/2λ, 2-5/8λ, 5-5/8λ
CR627B** <sup>4,9</sup>	6m/2m/70cm	2.1/4.5/7.2	120	UHF	60	1/4λ, 1/2λ+1/4λ
CR627BNMO** <sup>4,9</sup>	6m/2m/70cm	2.1/4.5/7.2	120	NMO	60	2-5/8λ
SGM911** <sup>4,9</sup>	6m/2m/70cm	2.15/3/5.8	60	UHF	41	1/4λ, 1/2λ, 2-5/8λ
CR8900A** <sup>4,11</sup>	10m/6m/2m/70cm	2.1 (2m) 5.5 (70cm)	60	UHF	50	1/4λ, 1/4λ 1/2λ, 2-5/8λ

6 Grounding required

7 NR770HB some specs but in black finish.

8 NR770HNMO some specs but in black finish.

9 52-54MHz only

10 Tunable from 140-174MHz

11 FM only

\* Not recommended for Magnet Mount

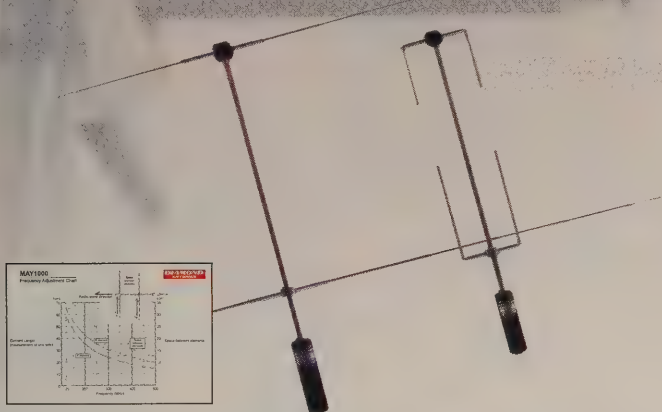
\*\* Fold-Over not available on CR-270A, M285, M285NMO, M685, M685SNMO, MG200, MR77, MR77SMA, NR72BNMO, and NR73BNMO



## HT/SCANNER ANTENNAS

### Handheld Direction Finding Beam Antenna

The **MAY1000** handheld beam is a great antenna for radio direction finding on frequencies ranging from 120MHz up to 500MHz. Every aspect of the MAY1000 is adjustable to optimize the antenna for a specific frequency using a provided measuring tape and a laminated frequency chart. Whether you are tracking birds, dogs, ELTs or a stuck transmitter, this antenna will be a great addition to your kit. The 39" cable attached to the antenna is terminated with a BNC connector. Adapter to SMA is available.



### Mobile Discone Antenna

The **D220** mobile discone antenna offers outstanding broad-band reception performance from 100MHz to 1600MHz. The discone is vertically polarized and omnidirectional. The upper element is tuned for the 144, 440, 902 and 1.2Ghz ham bands and allows you to transmit at a maximum power level of 50 watts. The antenna will mount on the Diamond K400/K600 series of mounts, and will withstand wind speeds in excess of 100MPH.

Receive: 100 to 1600MHz  
 Transmit: 144, 440, 902, 1200MHz  
 Gain: 2.15dBi 144, 902, 1200MHz, 5.5dBi 440MHz  
 Power: 50watts PEP  
 Impedance: 50 ohms  
 VSWR: less than 1.5:1  
 Type: 1/2 wave 144MHz, 2 x 5/8 wave 440MHz  
 Length: 35.5" / .90m  
 Weight: .85 pounds / 385g  
 Connector: UHF / PL259  
 Mounts: K400 and K600 series



### HT/Scanner Antennas

High quality, high gain HT antennas for mono, dual, and tri-band handheld radios. Available in both BNC and SMA connections. Increase the performance on your handheld or wideband scanner with a Diamond RH or SRH Series antenna.

#### SRH320A SMA

2m/1-1/4m/70cm tri-band HT antenna. Flexible. 13 3/4", 10 watts, +3dBR.

#### SRH805 SMA

2m/70cm/23cm tri-band HT antenna. 1.75", 10 watts.

#### SRH815 SMA

2m/70cm/23cm tri-band HT antenna. Flexible. 6", 6 watts, +3dBR.

#### SRH940 SMA

6m/2m/70cm flexible tri-band HT antenna. 18", 10 watts, +2.15dBi. 1/4λ 50-144MHz, 1/2λ 440MHz.

#### SRH789 SMA

#### RH789 BNC

Adjustable 1/4λ 93-300MHz; 5/8λ 300-1100MHz, 7 3/4"-32" +9dBR.

#### RH9515 BNC

High gain 2m/70cm/23cm slim tri-band HT antenna. Flexible. 14" (Wide band receive), +6dBR.

#### RH3 BNC

2m/70cm dual band "Black Bullet" HT antenna. 1.75". 120-900 receive.

#### RH77CA BNC

High gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15", +6dBR.

#### SRH77CA SMA

High gain 2m/70cm dual band flexible HT antenna. 15", 10 watts, +6dBR.

#### SRHF40 SMA

#### RHF40 BNC

Super flexible, high gain 2m/70cm dual band HT antenna. Receive range to 900 MHz. 15", +6dBR.

#### RH205 BNC

2m HT antenna, telescopic, 5/8λ fully extended, 47.5"; 1/4λ retracted, 9". +9dBR.

#### RH707 BNC

2m/70cm dual-band tiltable whip - HT antenna. 8 1/4", +3dBR.

#### SRH999 SMA

6m/2m/70cm/23cm quad-band HT antenna. Flexible. 19.5", 10 watts, +6dBR.

#### SRH519 SMA

#### RH519 BNC

2m/70cm slim dual-band HT antenna. Flexible. 8", 10 watts, +3dBR.

NOTES: 1. dBR refers to Relative Gain increase over typical factory supplied antenna.



**PREMIUM ANTENNA MOUNTS****K400 Series****Heavy Duty Hatchback/Door/Trunk Lid Mount**

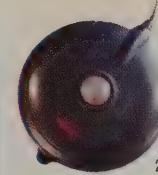
Deluxe heavy duty mount. Two-axis adjustable. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas. Will support ATAS 120, Tarheel II, High Sierra Sidekick & Outbacker.

- K400C\*** SO-239 base, 6.5' RG-316/B coax & PL-259  
**K400CNMO\*** NMO base, 6.5' RG-316/B coax & PL-259  
**K400-3/8C\*** 3/8x24 base, 6.5' RG-316/B coax & PL-259  
**K400S<sup>†</sup>** SO-239 base, 13.5' RG-316/B coax & SMA  
**K400SNMO<sup>†</sup>** NMO base, 13.5' RG-316/B coax & SMA

**K412 Series****Deluxe Hatchback/Door/Trunk Lid Mount**

Three-axis adjustable mount for light weight antennas. 1.5 inch mounting width. Ideal for tight mounting options. Recommended for antennas under 45". Position adjusting knob.

- K412C\*** SO-239 base, 6.5' coax & PL-259  
**K412CNMO\*** NMO base, 6.5' coax & PL-259  
**K412S<sup>†</sup>** SO-239 base, 13.5' coax & SMA  
**K412SNMO<sup>†</sup>** NMO base, 13.5' coax & SMA

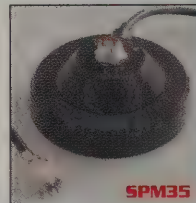
**K702M****Deluxe Low Profile Magnet Mount**

Magnet mount with high holding power. Aerodynamic styling, large 6 3/8" dia., 3/4" h. For VHF/UHF antennas up to 50" h. Includes thin mylar protective sheet to enhance grip and protect paint. SO-239 base, 13' RG58A/U cable with PL-259 connector.

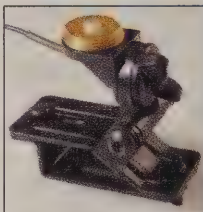
**Heavy Duty Magnet Mount**

2.2 lb./4" magnet mount rated 25-500 MHz. Cable: 13' RG58A/U coax and PL-259. Recommended for antennas under 45".

- SPM35** SO-239 mount, with PL-259 connector.  
**DPK4NM-N** Type-N mount, with Type-N connector.  
**SPM-NMO** NMO mount, with PL-259 connector.

**K515 Series****Universal Luggage Rack Mount**

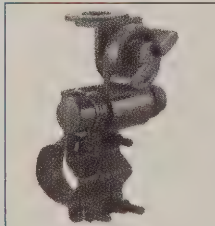
Ideal for new SUV luggage racks; accepts 3/4" to 2-1/4" in height and up to 2-1/4" wide. Two axis adjustable mount for medium-weight VHF/UHF antennas under 45", not requiring RF ground. Position adjusting knob allows antenna to fold over, and lock into horizontal position.



- K515S<sup>†</sup>** SO-239 base, 13.5' coax & SMA, PL-259  
**K515SNMO<sup>†</sup>** NMO base, 13.5' coax & SMA, PL-259

**K550****Luggage Rack Mount**

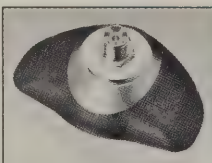
Adjustable luggage rack mount for new mini vans. Recommended for antennas under 45". Position adjusting knob allows antenna to fold to horizontal position.



- K550KM** SO-239 base, 13' coax & PL-259  
**K550** Mount Only

**K600****Variable Angle Trunk Mount**

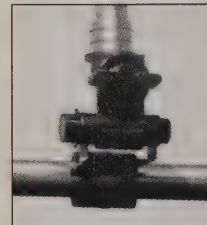
Deluxe aerodynamic trunk mount. Vertical adjustment 0-9°. 4" wide mounting base with 4 set screws for maximum strength. Recommended for high gain VHF/UHF antennas.



- K600M** SO-239 base, 16.5' two-step RG-188 Teflon® + 10' 5D coax & PL-259  
**K600S<sup>†</sup>** SO-239 base, 13.5' RG-316 Teflon® coax & SMA

**HRKS****Adhesive Backed Mount**

Adhesive backed for flat surface installations including glass, fiberglass, and metal. SO-239 base, 13.5' RG-316/B Teflon® coax with SMA connector. PL-259 adapter included. Recommended antennas: NR770HA, NR770HB, and SGM510.

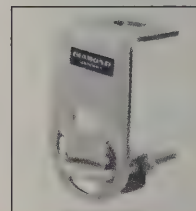
**K540****Mirror/Luggage Rack Mount**

Adjustable Mirror/Luggage rack mount accepts 1/2" to 7/8" tubing. Fits most mirrors and utility racks. Recommended for antennas under 45". Position adjusting knob allows antenna to fold over and lock into horizontal position.

- K540KM** SO-239 base, 13' coax & PL-259  
**K540** Mount Only

**CRM****Mirror/Luggage Rack Mount**

Stainless steel right angle mount with U-bolt. Recommended for: Motor home ladders, Balcony railings and Lumber racks.

**K9000****Motorized Mount**

Raise and lower your antenna with a touch of a button. Accepts "ground independent" antennas up to 45". 0-90° range. Recommended antennas: SG7500NMO, NR73BNMO, SG7500A, and NR770 series. Recommended cable group: C213 / C213NMO

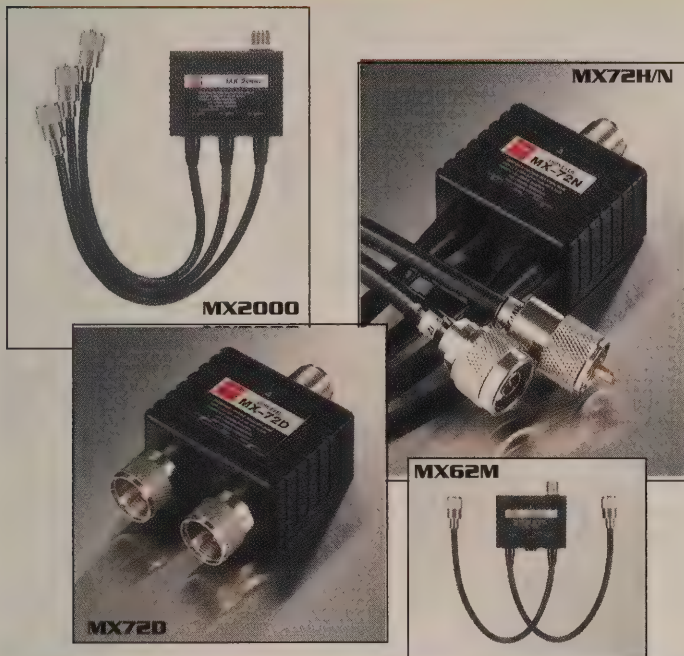
- K9000TM\*** Trunk/Hatchback Mount  
**K9000LRM\*** Luggage Rack Mount  
**K9000LRMO\*** Luggage Rack Mount - Oversize/K515 style clamp.

\* Use C110 for front radio installations.  
<sup>†</sup> Includes SMA to PL259 adapter.



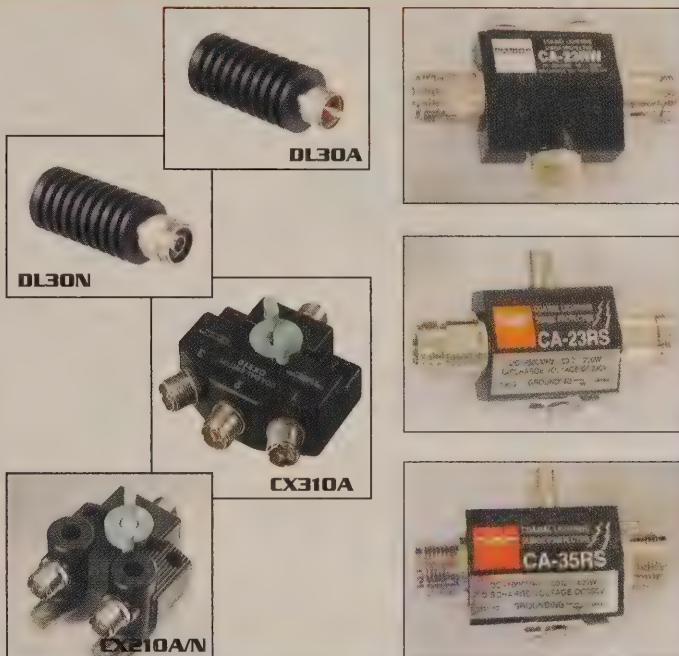
# CABLE ASSEMBLIES - COAX SWITCHES LIGHTNING PROTECTION - DUPLEXERS & TRIPLEXERS

## Duplexers & Triplexers



MODEL	MX72D	MX72H	MX72N	MX2000			MX62M	
FREQUENCY	LPF		HPF	LPF	BPF	HPF	LPF	HPF
BAND (MHz)	1.6-30	140-150	400-460	1.6-60	110-170	300-950	1.6-56	76-470
PWR CW (ICAS)	400	150	100					
WATTS P.E.P.	1000	400	250	800	800	500		600
THRU LOSS/dB	0.15	0.15	0.25	0.15	0.2	0.25	0.2	0.3
ISOL	60dB			60dB			50dB	
VSWR	1.2:1			1.2:1			1.2:1	
CONNECTOR COMPLEMENT	(M) MIX 144 430 (M) (M)	(M) MIX 144 430 (M) (M)	(M) MIX 144 430 (M) (N)	(M) MIX 50 144 430 (M) (M) (M)			(M) MIX HF VHF (M) (M)	
CONNECTOR	Direct	12" Cable w/Connectors		12" Cable w/PL259			12" Cable w/PL259	

## Dummy Loads & Coaxial Switches



MODEL	DESCRIPTION
CA35RS	Lightning surge protector, DC-1000 MHz, 400w, SO-239
CA35RPW	Lightning surge protector, DC-1000 MHz, 400w, UHF(F) to UHF(M), Waterproof.
CA23RS	Lightning surge protector, DC-2500 MHz, 200w, Type-N (F)
CA23RW	Lightning surge protector, DC-2500 MHz, 200w, Type-N (F) Waterproof.
CX210A	Heavy duty wideband coax switch, DC-1000 MHz. 1.5 kW, SO-239
CX210N	Heavy duty wideband coax switch, DC-1500 MHz. 1.5 kW, Type-N
CX310A	Heavy duty wideband coax switch, 3 position, DC-800 MHz, SO-239
DL30A	Dummy load, DC-500 MHz. 15w average/100w peak. PL-259
DL30N	Dummy load, DC-500 MHz. 15w average/100w peak. Type-N

## Cable Assemblies



**C101**  
SO-239 base, 6.5' RG316 Teflon® coax & PL-259. Ideal cable assembly for trunk mount radios.

**C101NMO** Same as C101 with NMO base. For Diamond's K-Series mounts.

**C213** Same as C101, 13.5' RG-316 Teflon® cable

**C213NMO** Same as C101NMO, 13.5' RG-316 Teflon® cable

**C101-3/8C** Same as C101, 13.5' RG-316 Teflon® cable

**C101-3/8CKIT** Upgrades any K400 mount to a K400-3/8C. Includes 3/8-24 hardware & C101-3/8C cable assembly

### C1045MA

4' extension cable for HT's with SMA connector. For existing cable assemblies with PL-259. UHF female (SO-239) to right angle SMA male.

### C110

Extension for C101. 10' RG8X coax w/mini UHF Conn. Use C110 to extend cable for front radio installations.

### C110BNC

10' assembly similar to above, uses RG316 Teflon® Coax terminating in BNC-male.

### C110SMA

Similar to C110BNC, terminates in SMA-male.

### C211

SO-239 base, 16.5' assembly & PL-259. Combination of C101 & C110.

### C1055MA

5' extension cable for C101. RG58/U cable, terminating in right angle SMA male.



# LARSEN® - The Amateur's Professional

## 2M/70CM Dual Band Series Antennas

Larsen dual band antennas provide excellent performance for simultaneous use of VHF and UHF amateur frequencies. Each Larsen dual band antenna is factory preset to guarantee optimum performance with no tuning required.

### NMO2/70SH . . . . . \$49.99

Freq: 144-148/440-450 MHz  
Gain: Unity/1.8 dBd  
Power: 200 Watts  
Type: VHF: Center Loaded 1/4 Wave  
UHF: Center Loaded 3/4 Wave  
Base: NMOUHFBASEB  
Height: 19"  
Whip: WNM02/70SH

Lower profile amateur 2m/70cm dual band antenna with spring for NMO mounts.

### NMO2/70B . . . . . \$79.99

Freq: 144-148/440-450 MHz  
Gain: 1.6/3.5 dBd  
Power: 100 Watts  
Type: VHF: Center Loaded 1/2 Wave  
UHF: Collinear  
Base: NMO2/70BCO  
Height: 36.75"  
Whip: W2/70B

Amateur 2m/70cm dual band antenna for NMO mounts.

### MM2/70PL . . . . . \$64.99

Freq: 144-148/440-450 MHz  
Gain: Unity/1.8 dBd  
Power: 200/100 Watts  
Type: VHF: Center Loaded 1/4 Wave  
UHF: Center Loaded 3/4 Wave  
Base: 3" Round Mag Mount  
Height: 18"  
Whip: WMM2/70

Complete 2m/70cm magnetic mount antenna with 12' of RG-58A/U coax.

## Kulglass Series High Performance Glass Mount Antennas

Larsen's Kulglass™ (KG) series uses a patented low impedance design and advanced materials to produce the world's best on-glass antenna. The KG uses advanced resin polymer plastic to completely enclose the circuit board or loading coil for mechanical durability and weather resistance. 3M's best adhesive tape, plus Larsen's unique bonding enhancer ensure the best possible grip to the glass.

### KG2/70CXPL . . . . . \$139.99

Freq: 144-148/442-448 MHz  
Gain: 0/2 dBd • 2.4/4.5 dBd\*  
Power: 100 Watts  
Type: VHF: 1/2 Wave  
UHF: Collinear  
Base: KG2/700/S  
Conn: PL-259  
Height: 32.75"

\* Ground plane required for gain.

Glass mount dual band antenna for 2m/70cm amateur radio frequencies with coax and connector.

### KG144UDPL . . . . . \$89.99

Freq: 144-160 MHz  
Gain: Unity  
Power: 100 Watts  
Type: 1/2 Wave  
Base: KG1440/S  
Conn: PL-259  
Height: 48"  
Whip: WKG144

Complete KG glass mount antenna with coax and connector

### KG440UDPL . . . . . Closeout \$49.99

Freq: 440-460 MHz  
Gain: Unity  
Power: 100 Watts  
Type: 1/2 Wave  
Base: KG4400/S  
Conn: PL-259  
Height: 15"  
Whip: WKG440

Complete KG UHF glass mount antenna with coax and connector.

## Larsen Exclusive Kulduckie Portable Series

Superior transmit range and tough mechanical durability are the hallmark of Larsen portables. Full soldered connections and silver-plated components improve electrical efficiency. Double spring BNCs reduce wear on the mount. Other styles are available.

### KD4146HQ . . . . . \$25.99

Freq: 144-148 MHz  
Gain: Unity  
Power: 25 Watts  
Type: 1/4 Wave Helical  
Conn: BNC  
Height: 10.5"

### KD142MHW . . . . . \$38.99

Freq: 144-148 MHz  
Gain: Unity  
Power: 25 Watts  
Type: 1/2 Wave Telescoping  
Conn: BNC  
Height: 11 to 44.5"  
Whip: WKD142HW

### KD42/70 . . . . . \$39.99

Freq: 144-148/440-450 MHz  
Gain: Unity  
Power: 25 Watts  
Type: VHF: Loaded 1/4 Wave  
UHF: 1/4 Wave  
Conn: BNC  
Height: 9"

Impedance matching transformer provides high Q and deeper resonance.

### KD1444S . . . . . \$19.99

Freq: 406-512 MHz (SPEC 445 MHz)  
Gain: Unity  
Type: 1/4 Wave  
Conn: BNC  
Height: 6.5"

### OM150CK . . . . . \$69.99

Complete self-mounting, no ground plane antenna with internally attached cable. Black coil, chrome whip, field tunable.

Freq: 144-174 MHz  
Gain: 2.5 dBd\*  
Power: 200 Watts  
Type: 1/2 Wave  
Height: 51.75"  
Whip: W490  
Coax: 17' of RG-58A/U  
Conn: PL-259

\* Ground plane required for gain.



A Pulse Brand  
3611NE 112th Avenue  
Vancouver, WA 98682  
360-944-7551 / 800-426-4656  
Fax: 800-525-6749  
Email: info@larsen.pulseeng.com  
Web: www.larsen-antennas.com



# Hear The Difference!

## Industry's Best NMO Mobile Antennas

Larsen's version of the standard 3/4" Motorola TAD/TAE type mount (NMO) uses advanced design, materials and construction to provide a premium mount. For demanding outdoor applications, the chemical resistant NMO series is housed in a resin polymer plastic shell which is completely molded around the nickel plated brass whip stud to eliminate moisture damage. Our super seal gasket also greatly reduces water intrusion under the base.

**NMO27C (Chrome)** . . . . . \$32.99

**NMO27B (Black)** . . . . . \$36.99

Freq: 27-31 MHz  
Gain: Unity  
Power: 150 Watts  
Type: Loaded 1/4 Wave  
Base: NMO27BCO  
Height: 53"  
Whip: W490

**NMQSPEC (Chrome)** . . . . . \$9.99

**NMQSPECB (Black)** . . . . . \$15.99

**NMQSPECCK (3/4" Kit Chrome)** . . \$24.99

Freq: 136-960 MHz  
Gain: Unity  
Power: 200 Watts  
Type: 1/4 Wave  
Height: 22"  
Whip: W200

**NMO50C (Chrome)** . . . . . \$32.99

**NMO50B (Black)** . . . . . \$36.99

Freq: 47-54 MHz  
Gain: Unity  
Power: 150 Watts  
Type: Loaded 1/4 Wave  
Height: 52.5"  
Whip: W490

**NMO150C (Chrome)** . . . . . \$30.99

**NMO150B (Black)** . . . . . \$33.99

Freq: 144-174 MHz  
Gain: 3 dBd  
Power: 200 Watts  
Type: 5/8 Wave  
Height: 51.5"  
Whip: W490

**NMO440C (Chrome)** . . . . . \$29.99

Freq: 440-460 MHz  
Gain: 3.4 dBd  
Power: 200 Watts  
Type: 5/8 over 1/2 Wave  
Height: 33"  
Whip: W154

**NMO900B (Black)** . . . . . \$39.99

Freq: 890-960 MHz  
Gain: 3.4 dBd  
Power: 200 Watts  
Type: 5/8 over 1/2 Wave  
Height: 12.75"  
Whip: W195B.100, enclosed coil

## Base Station Antennas

Larsen manufactures a variety of small base station antennas for directional and omni-directional applications. Each base station antenna is designed with premium materials to withstand the most demanding weather conditions. All base station antennas come with mounting hardware to attach to a pole up to 2" in diameter.

**BSAKIT** . . . . . \$53.99

Freq: 144-512 MHz  
VSWR: 1.5:1 or less  
Power: 200 Watts  
Conn: UHF Female  
Whip: 51.75"

Complete base station kit for designing a base station unit from 144-152 MHz. Comes with mounting hardware (antenna is extra). Works with NMO and UHF mount antennas.

## Mobile GPS Antenna

**GPSNMO02** . . . . . \$69.99

Freq: 1575.4 MHz  
Gain: 5 dBic/28 ± 2 dB (LNA)  
Voltage: 5 VDC  
Type: GPS NMO  
Height: 1.3"  
Diameter: 3"

## Mounts

Larsen has a full line of permanent and temporary mounts to solve nearly every installation problem. Each mount is manufactured of the highest quality materials, including premium coaxial cable.

**NMOK** . . . . . \$15.99

Motorola-style Roof Mount

Size: 3/4"  
Coax: 17' RG-58A/U  
Conn: PL-259

**NMOTLP** . . . . . \$29.99

Motorola-style Low Profile

Trunk Lip Bracket, Black  
Size: 1.75" x 1.75"  
Coax: 17' RG-58A/U  
Conn: PL-259

**NMOMMR** . . . . . \$32.99

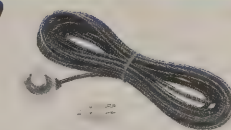
Motorola-style Round Magnetic Mount

Size: 3.5" Round  
Coax: 12' RG-58A/U  
Conn: PL-259  
Pull Strength: 90 lbs.

**POK** . . . . . \$32.99

SO-239 female type roof mount

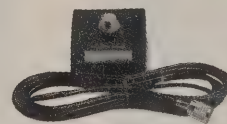
Size: 3/4" hole  
Coax: 17' RG-58A/U  
Conn: PL-259



**POMM** . . . . . \$36.99

SO-239 female type magnetic mount

Size: 3.5" x 3" rectangle  
Coax: 17' RG-58A/U  
Conn: PL-259  
Pull Strength: 90 lbs



**NMOKHFUD** . . . \$12.99

NMO style roof mount

Size: 3/4" hole  
Coax: 17' RG-58A/U  
Dual Shield  
Conn: Not Included



## Parts and Accessories

**W490** . . . . . \$9.99

Chrome .100 tapered replacement whip for 144 MHz (49")

**W490B** . . . . . \$12.99

Black .100 tapered replacement whip for 144 MHz (49")

**W2/70B** . . . . . \$29.99

Black .100 tapered replacement whip for NMO2/70B (approx. 31")

**RGSS** . . . . . \$5.99

3 SuperSeal NMO Gaskets

**SPRING** . . . . . \$10.99

Shock Spring

**HP34** . . . . . \$3.99

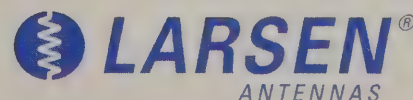
(5) 3/4" Rubber hole plugs

**KGREINSTALL** . . . . . \$9.99

Reinstall Kit for KGs

**NMOCAPB** . . . . . \$5.99

Black NMO Rain Cap



A Pulse Brand  
3611NE 112th Avenue  
Vancouver, WA 98682  
360-944-7551 / 800-426-4656  
Fax: 800-525-6749  
Email: info@larsen.pulseeng.com  
Web: www.larsen-antennas.com



## THE PERFECT ANTENNA

For almost 2 decades GAP has stated there is no perfect antenna. No singular antenna can do it all. That is why we designed a family of antennas that utilize the patented (#5.592.183), GAP Technology, to give you options. Within this family is the antenna right for you. If deed restrictions or visibility are a problem, take a look at the Eagle DX. If you are looking for a simple general coverage antenna with capture area, consider the Challenger DX. What about a low band antenna with great 40m and 80m performance? The Voyager DX is worth your attention. If you seek the most popular multiband antenna, then the Titan DX will end your search.

The GAP Technology eliminates traps, electromechanical devices and coils, which can increase loss and decrease reliability. Simplicity in design results in a very user friendly assembly process. Slide one tube over another until the big hole lines up with the little and insert a screw. A GAP is pretuned, will handle 1500W PEP, and has a VSWR < 2:1 across the entire band.\*

### CATCH THE WAVE



#### TITAN DX

10m, 12m, 15m, 17m,  
20m, 30m, 40m, & 80m  
25' tall 25 lbs

Mounts on 1-1/4" OD  
mast

No radials required.

\*VSWR under 2:1 on  
80m 100 KHz



#### CHALLENGER DX

2m, 6m, 10m, 12m,  
15m, 20m, 40m, & 80m  
31.5' tall 21 lbs

Drop in ground mount  
supplied.

3 counterpoises  
required 25' long.

\*VSWR under 2:1 on  
80m 130 KHz



#### VOYAGER DX

20m, 40m, 80m, &  
160m

45' tall 39 lbs

Supplied with hinged  
ground mount.

3 counterpoises  
required 57' long.

\*VSWR under 2:1 on  
160m 90 KHz



#### EAGLE DX

10m, 12m, 15m, 17m,  
20m & 40m

21' tall 19 lbs

Mounts on 1-1/4" OD  
mast

No radials required.

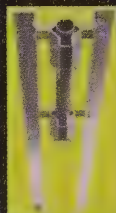
\*40m limited to  
400 watts

### QUICK TILT

The easy way to raise and lower your  
antenna, support mast or flagpole.  
Works with most antennas

GROUND MOUNT

LADDER MOUNT



Accommodates  
1 1/4" 2" OD Mast



ANTENNA ACCESSORIES  
FOR ALL



STAINLESS STEEL & ALUMINUM CONSTRUCTION

### GUY KITS

Insure your antenna or support mast  
against the elements with a Guy Kit.



STAINLESS STEEL & ALUMINUM CLAMP  
3/32" UV Protected Black Double Braided Polyester Rope

## NOISE CANCELLATION EQUIPMENT

PROVIDES 9-35dB DSP RECEIVE NOISE CANCELLATION



### HEAR IT IN-LINE MODULE

Put a HEAR IT in-line Module between  
your rig and speaker and KILL noise.

- 8 User Selectable levels of DSP noise cancellation
- Audio & Line level inputs and outputs
- 12-24 VDC • 2.5W maximum audio output
- On/Off audio bypass switch
- Headphone jack
- Dim: 6.75"w x 3.35"h x 1.4"d

### HEAR IT SPEAKER

Base or Mobile – the HEAR IT will  
dramatically improve your audio.

- 8 user selectable levels of DSP noise cancellation
- 12-24 VDC power requirement
- 2.5W maximum audio output
- Input sensitivity control
- Headphone jack
- On/Off audio bypass switch
- 6 ft. audio lead with 3.5mm plug
- Dim: 4.5"w x 2.75"h x 2.25"d

**For Prices see GAP  
in the PRICE GUIDE**



FRONT VIEW



REAR VIEW





### Model G3-144 . . . \$74.99

The G3-144 is the newest addition to the Hustler Base Station line. Designed with the cost conscious amateur in mind, this small, inexpensive antenna delivers more gain than other antennas in its price range. Ideal for a home or emergency command post.

#### ELECTRICAL

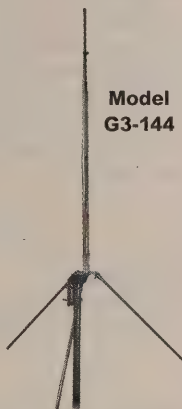
- Frequency Range: 144 - 148 MHz.
- Gain: 3 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

#### MECHANICAL

- Termination: SO-239
- Length: 7' 5"

- Weight: 2.0 lbs
- Wind Survival: 100 mph.
- Wind Area: 0.5 ft.<sup>2</sup>
- Mounting: 1 to 1 3/4"

- Construction: High strength



Model  
G3-144

### Model G6-270R . . . \$199.99 Dual band 2 Meter & 440 MHz

#### ELECTRICAL

- Frequency range: 144 - 148 MHz, 435 - 455 MHz.
- Gain: 6 dB
- Maximum power: 100 Watts
- Bandwidth: 4 MHz - 2 Meters 10 MHz - 440 Meters
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

#### MECHANICAL

- Termination: N female
- Length: 7' 6"

- Weight: 5.3 lbs.
- Wind Survival: 100 mph
- Wind Area: 1.4 ft.<sup>2</sup>
- Mounting: Up to 1 3/4"

- Construction: one piece radome



G6-270R

### Model G6-440 . . . \$179.99

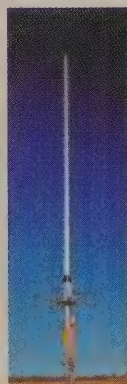
#### ELECTRICAL

- Frequency range: 440 - 450 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 10 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

#### MECHANICAL

- Termination: Type N female
- Length: 7' 3"

- Weight: 5.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.<sup>2</sup>
- Mounting: Up to 1 3/4"



G6-440

### VHF and UHF Omni Directional Fixed Station Vertical Antennas

### Model G7-144 . . . \$199.99

#### Two Meter

The G7-144 is totally self supporting and is easily assembled. When disassembled the longest part is approximately 4' which makes it easy to handle and ship via UPS.

#### ELECTRICAL

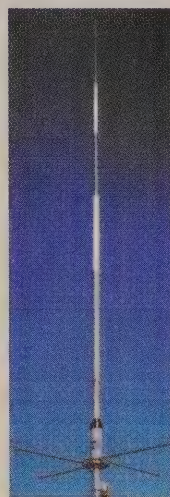
- Frequency Range: 144 - 148 MHz.
- Gain: 7 dB
- Maximum Power: 1 KW FM
- Bandwidth: 4 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

#### MECHANICAL

- Termination: N female
- Length: 15' 4"

- Weight: 10.0 lbs.
- Wind survival: 100 mph
- Wind Area: 0.96 ft.<sup>2</sup>
- Mounting: Up to 1 3/4"

- Construction: High strength fiberglass & aluminum.



G7-144

### Model G6-144B . . . \$139.99 Two Meter

#### ELECTRICAL

- Frequency range: 143 - 149 MHz.
- Gain: 6 dB
- Maximum power: 1 KW FM
- Bandwidth: 6 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

#### MECHANICAL

- Termination: SO-239
- Length: 9' 9"

- Weight: 6.8 lbs.
- Wind survival: 100 mph.
- Wind Area: 1.4 ft.<sup>2</sup>
- Mounting: Up to 1 3/4"



G6-144B

### Model G7-220 . . . \$169.99

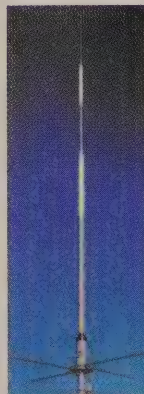
#### ELECTRICAL

- Frequency range: 220 - 225 MHz.
- Gain: 7 dB
- Maximum power: 1 KW FM
- Bandwidth: 5 MHz.
- VSWR: < 1.5:1 @ resonance
- Impedance: 50 ohms

#### MECHANICAL

- Termination: Type N female
- Length: 10' 2"

- Weight: 7.0 lbs.
- Wind survival: 100 mph.
- Wind Area: 0.96 ft.<sup>2</sup>
- Mounting: Up to 1 3/4"



G7-220

### Fixed Station Multi-Band HF Vertical Antennas

Our exclusive trap design offers the lowest loss possible. A special extrusion process allows us to produce trap covers to an otherwise unattainable close tolerance, assuring accurate and permanent resonance. Our highly accurate traps provide top signal reports and consistent contacts. Accurate tuning is made possible by the wide range of tuning flexibility designed into our verticals. Not only can you use the normal adjustable tubing to change resonance, but the traps themselves can be field tuned for an additional 2 MHz. shift. This flexibility will enable you to achieve a good S.W.R. even if your installation is not ideal.

- Broadbanded - low VSWR at band edges
- Power capability - full legal limit on SSB or CW
- Solid one inch fiberglass trap forms for optimum electrical and mechanical stability
- Heavy wall, high strength aluminum tubing, heavy duty aluminum mounting bracket and low loss, high strength insulators.
- Stainless steel clamps and hardware.
- Easy assembly and tuning.
- Single line feed with any length of 50 ohm coax.
- Use as ground mount with or without radials, or elevated mount with radials.
- All of the BTVs can be mounted in a piece of PVC and disguised as a flagpole in deed restricted neighborhoods.

### Model 6-BTV . . . \$199.99

Bands 10-15-20-30-40 & 75 or 80 meters  
Length/weight 24 ft. / 16.5 lbs.  
Mounting Vertical support up to 1.75 O.D.

Wind Load 29 lbs. @ 70 mph.  
Power capability Full legal limit SSB/CW  
VSWR at resonance 1.15 to 1 or better  
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

### Model 5-BTV . . . \$179.99

Bands 10-15-20-40 & 75 or 80 meters  
Length/weight 25 ft. 1 in. / 16.5 lbs.  
Mounting Vertical support up to 1.75 O.D.

Wind Load 29 lbs. @ 70 mph.  
Power capability Full legal limit SSB/CW  
VSWR at resonance 1.15 to 1 or better  
Bandwidth VSWR 2:1 or better at band edges on 10-40 meters (100 KHz. On 75 or 80 meters)

### Model 4-BTV . . . \$149.99

Bands 10-15-20-40 meters  
Length/weight 21 ft. 5 in. / 15 lbs.  
Mounting Vertical support up to 1.75 O.D.

Wind Load 28 lbs. @ 70 mph.  
Power capability Full legal limit SSB/CW  
VSWR at resonance 1.15 to 1 or better

### Model 30-MTK . . . \$47.99

30 meter add on kit for the 4 and 5 BTV

### Spirit Series - Repeater Antenna

Hustler's omnidirectional, collinear design repeater antennas are enclosed in a rugged fiberglass radome that will help minimize pattern variations due to high winds or extreme conditions. Great for your club or tower use. We offer these antennas in 144, 220, 440, 900 MHz and 1.2 Ghz. The gain will be unity, 3, 6, 9, or 12 dB depending on the frequency. Custom frequencies available, call for a quote.



**New-Tronics Antenna Corporation**  
225 Van Story Road  
Mineral Wells, Texas 76067-9563

Phone: 940.325.1386  
Toll Free: 877.994.9499  
Fax: 940.325.5077

[www.new-tronics.com](http://www.new-tronics.com)



### Unity Gain

THF . . . \$25.99

#### VHF/UHF Trunk Lip Mount Antennas.

- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U with PL-259 connector



UHT-1 . . . \$17.99

#### VHF/UHF Roof/Deck Hole Mount Antenna.

- Frequency range: 140-500 MHz
- ¼ wave length
- Cut length for low VSWR
- 15 ft RG58/U



UGM . . . \$23.99

#### VHF/UHF Magnetic Mount Antenna

Extend the range of handheld or portable radios. Trimmable 17-7 PH stainless steel radiator is cut to ¼ wavelength for low SWR and unity gain from 140 to 500 MHz. Trim chart included. Highly efficient mylar protected magnetic mount attaches conveniently to magnetic compatible surfaces. No drilling! Supplied ready for operation with 10 ft. of mini-coax with BNC connector



### Collinear

#### Series Fed Mobile Antennas

SF-2 144 MHz 3.4 dB . . . \$17.99

SF-220 220 MHz 3.4 dB . . . \$17.99

- Power rating: 100 watts
- 3/8 x 24 thread
- 5/8 wave

RX-2 144 MHz 3.4 dB . . . \$28.99

RX-220 220 MHz 3.4 dB . . . \$28.99

RX-440 440 MHz 5.0 dB . . . \$28.99

- Coil same as above
- 3 oz magnet
- 15 ft RG-58/U coax
- PL-259 connector



#### Collinear High Gain

##### Mobile Antenna

CG-144 5.2 dB 6 MHz BW . . . \$36.99

CG-220 5.2 dB 4 MHz BW . . . \$36.99

- Power rating: 200 watts
- 3/8 x24 thread
- 5/8 over ¼ wave
- Collinear design
- CGT-144 5.2 dB 6 MHz BW . . . \$59.99
- CGT-220 5.2 dB 4 MHz BW . . . \$59.99
- Coil same as above
- Swivel ball for vertical positioning
- Quick disconnect for easy removal
- Trunk mount base



MKR-2 Radial Kit . . . \$23.99

Used to convert RX, SF & CG series coils to fixed station operation. Mount can accept any 3/8x24 threaded



## VHF and UHF Mobile Antennas

### MX Series NMO Magnetic Mount Antenna

MX-2 144 MHz 3.4 dB . . . \$37.99

MX-220 220 MHz 3.4 dB . . . \$37.99

MX-440 440 MHz 5.0 dB . . . \$49.99

- Power rating: 200 watts
- Chrome top
- NMO style coil
- 10 oz magnet
- 17 ft RG58/U coax & PL-259 connector



MX-2B 144 MHz 3.4 dB . . . \$42.99

MX-440B 440 MHz 5.0 dB . . . \$49.99

- Same as above but all black coil

### BBG Series NMO Swivel Ball & Spring Antenna

BBG-144 3.4 dB . . . \$49.99

BBG-440-5 5.0 dB . . . \$49.99

- Power rating: 200 watts
- NMO style coil
- Chrome top, swivel ball and spring

BBGT-144 3.4 dB . . . \$56.99

BBGT-440-5 5.0 dB . . . \$49.99

- Same coil as above
- Includes Trunk mount
- 17 ft RG58/U coax & PL-259 connector



### Dual Band 2 meter/ 70cm

#### Mobile Antennas

Hustler's new Dual Band antennas are designed to perform even in the toughest environments. Base coils are ultrasonically welded to ensure mechanical integrity and durability.

LMC-270 . . . \$34.99

- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style coil
- Coil and whip only

MX-270 . . . \$63.99

- 2.4 dB/4.0 dB gain
- Power rating: 100 watts
- NMO style magnetic mount
- 17 ft RG58/U coax & PL-259 connector



### LM Series NMO Coils

LMG, LMC AND LMB Antennas are coil & whip only and require an NMO mount.

LMG-144 3.4 dB gain . . . \$27.99

LMG-440-5 5.0 dB gain . . . \$24.99

- Power rating: 200 watts
- NMO style coil
- Chrome top and bottom
- Contact-silver plated push pin

LMC-144 3.4 dB gain . . . \$25.99

LMC-440-5 5.0 dB gain . . . \$25.99

- Power rating: 200 watts
- NMO style coil
- Black coil with chrome top
- LMB-144 3.4 dB gain . . . \$23.99
- LMB-440-5 5.0 dB gain . . . \$25.99

- Power rating: 200 watts
- NMO style coil
- Black coil

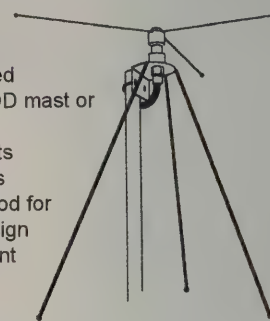


### Scanner Base Station Antenna

Hear more at a greater distance with Hustler's external omnidirectional scanner antennas.

DCX . . . \$25.99

- 40 - 950 MHz
- Vertically polarized
- Mounts to 1 ¼" OD mast or flat surface
- 55" cone elements
- 20" disc elements
- Solid aluminum rod for high strength design
- Hardware & mount included



DCLB . . . \$37.99

- Same as DCX
- 50 ft RG58/U coax with PL-259 on one end and BNC on the other end

### Mobile Scanner Antenna

Hear all of the action in your car. Covers 30-50, 148-174, 430-450, 800-950 MHz

MRMB . . . \$19.99

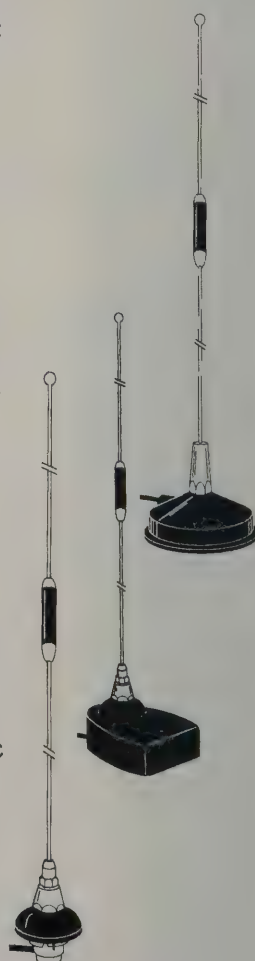
- 3 oz Magnet mount
- 12 ft RG58/U coax
- Available with BNC connector

MOTB . . . \$21.99

- Trunk mount
- 15 ft RG58/U coax
- Available with BNC connector

MORB . . . \$19.99

- ¾" Roof or deck mount
- 12 ft RG58/U coax
- Available with BNC connector



New-Tronics Antenna Corporation

225 Van Story Road  
Mineral Wells, Texas 76067-9563

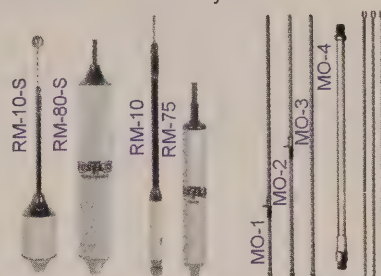
Phone: 940.325.1386  
Toll Free: 877.994.9499  
Fax: 940.325.5077



# Amateur HF Mobile 10,12,15,17,20,30,40,60,75 and 80 Meter

If you are serious about HF mobile operation the **Hustler** HF Mobile System is the obvious choice. **Hustler** manufactures and sells more HF mobile antennas world wide than anyone. No other manufacturer offers the convenience, the flexibility or the pure performance that **Hustler** does. Our HF Mobile System offers a wide variety of components which enable you to customize your installation to fit your present and future needs. A choice of four different support masts provides an installation solution for every vehicle. A selection of interchangeable resonators in high and moderate power levels and varying bandwidths are available. A full complement of accessories such as springs, a multiband adapter and a quick disconnect device complete the system. Experience the satisfaction that comes with owning the best in the world — the **Hustler** HF Mobile System.

	Model	Band	Power SSB	BW @ 2:1 SWR	Weight lbs	Price
RM-10	Standard	10 m	400 W	150-250 KHz	0.41	\$18.99
RM-11	Standard	11 m	400 W	150-250 KHz	0.41	\$18.99
RM-12	Standard	12 m	400 W	90-120 KHz	0.41	\$18.99
RM-15	Standard	15 m	400 W	100-150 KHz	0.42	\$18.99
RM-17	Standard	17 m	400 W	120-150 KHz	0.44	\$25.99
RM-20	Standard	20 m	400 W	80-100 KHz	0.46	\$25.99
RM-30	Standard	30 m	400 W	50-60 KHz	0.84	\$28.99
RM-40	Standard	40 m	400 W	40-50 KHz	0.84	\$28.99
RM-60	Standard	60 m	400 W	40-50 KHz	0.84	\$30.99
RM-75	Standard	75 m	400 W	25-30 KHz	1.05	\$30.99
RM-80	Standard	80 m	400 W	25-30 KHz	1.05	\$30.99
RM-10S	Super	10 m	1 kW	250-400 KHz	1.00	\$27.99
RM-11S	Super	11 m	1 kW	250-400 KHz	1.00	\$27.99
RM-15S	Super	15 m	1 kW	150-200 KHz	1.20	\$28.99
RM-20S	Super	20 m	1 kW	100-150 KHz	1.25	\$32.99
RM-40S	Super	40 m	1 kW	50-80 KHz	1.80	\$41.99
RM-75S	Super	75 m	1 kW	50-60 KHz	2.10	\$57.99
RM-80S	Super	80 m	1 kW	50-60 KHz	2.10	\$57.99



## Mobile HF Antennas Hustler Masts

### MO-1 .... \$36.99

Mobile mast 54" length, for bumper, fender or hitch mounting. Folds over at 15" above base. Made of highest quality heat treated Stainless steel and aluminum parts. 3/8" x 24 threaded

### MO-2 .... \$36.99

Mobile mast, 54" length, for bumper, fender or hitch mounting. Folds over at 27" above base. 3/8" X 24 threaded

### MO-3 .... \$27.99

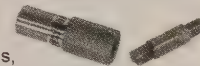
Mobile mast, 54" length, for bumper, fender or hitch mounting. solid aluminum with white vinyl coating. Does not fold over. 3/8" X 24 threaded

### MO-4 .... \$22.99

Mobile mast 22" length, trunk or deck mounting. Three retuning tip rods included. 3/8" X 24 threaded

## Quick Disconnect QD-2 .... \$24.99

100% Stainless Steel. Remove antenna from mount in seconds with push and twist release. Every part including the compression spring is manufactured from the best available 100% stainless steel. Special design of enclosed compression and lock assembly assures freedom against ice and dirt jam up. Accommodates small, medium and large mobile antennas. Equipped with 3/8" x 24 threads, female on one end and male on the other.



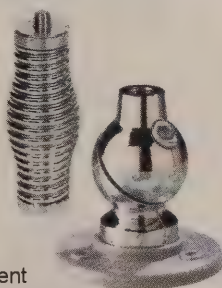
### VP-1 .... \$7.99

Automatic bandswitching using any three Hustler HF resonators. Adapts any Hustler HF mast to tri-band operation. No additional tuning necessary.



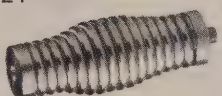
## Professional Chrome Series C-32 .... \$18.99

Chrome plated 1 1/2" ball mount. Furnished complete with rubber pad, steel backup plate, all mounting hardware and hex key.



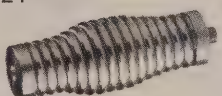
### C-30 .... \$14.99

Chrome plated 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas



### C-29 .... \$21.99

Stainless steel 4" spring. Copper braided center conductor to prevent detuning. Accepts 3/8" x 24 antennas



## Resonator Spring RSS-2 .... \$13.99

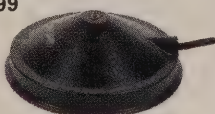
Finest quality stainless steel spring for use between resonator and Hustler antenna mast. This 3" spring absorbs shock when the antenna strikes overhanging obstructions. Supplied ready for easy installation with 3/8" x 24 threads, female on one end, and male on the other. Copper braided center conductor to prevent detuning.



### Magnet Mount .... \$22.99

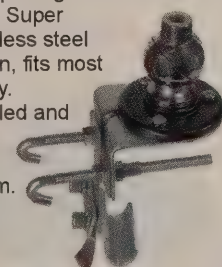
#### MBM "Super" Magnet

- 95 lbs. Pull strength
- Powerful 5 inch diameter magnet
- 8 pole magnet
- 16 feet RG 58/U coax with PL-259 connector.
- 3/8" x 24 female threads
- Recommended for antennas up to 48".



### Bumper Mount BM-1 .... \$25.99

Design is rugged for supporting Hustler antennas with the Standard or Super resonators. Heavy stainless steel strap, stronger than chain, fits most bumpers inconspicuously. Assembly is easily installed and held rigid by "J" bolts at the top and a bumper strap clamp at the bottom.



## Professional Stainless Steel Series

### SSM-1 .... \$52.99

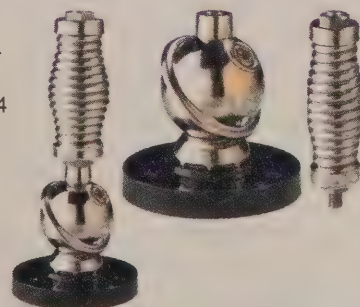
Heavy-duty mount with 4" stainless steel spring with copper braided center conductor to prevent detuning. 180 degree adjustable 2" diameter stainless steel ball. Accepts 3/8" x 24 antennas

### SSM-2 .... \$32.99

Heavy-duty 2" diameter stainless steel ball mount. 180 degree adjustable. Accepts 3/8" x 24 antennas.

### SSM-3 .... \$29.99

Heavy-duty stainless steel 4" spring with 3/8" x 24 coupling stud. Copper braided center conductor to prevent detuning.



### HLM .... \$25.99

Trunk lip mount designed for hatch and slanted back vehicles. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



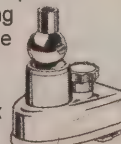
### TLM .... \$25.99

Trunk lip mount, which accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.



### HOT .... \$26.99

Trunk lip mount with easy off/on by using thumb knob. 180 degree 1" diameter ball, which accepts 3/8 x 24 antennas. RG58/Ucoax with PL-259 connector.



### RVM .... \$23.99

Recreational vehicle mount with heavy duty bracket. Easy antenna removal or lay down with thumb knob. 1" ball that accepts 3/8 x 24 antennas. RG58/U coax with PL-259 connector.





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# Pro-Am

## ANTENNAS & ACCESSORIES

### 160-6 Meters Mobile

#### PHF Series Antennas

Single band whips consisting of a black fiberglass lower section with integrated coil and an adjustable and removable stainless steel whip, except for the PHF-160. These time-proven HF antennas are especially designed for maximum efficiency, low VSWR and broad bandwidth. They are power rated for 250 Watts P.E.P. and built to withstand considerable use. Standard 3/8" x 24 thread base. Assembled length on all models is 96 in. (the PHF-6 is 58 in.).

The model **DAK-AD** Dual Adapter Mount (\$13.99) accepts two antennas to make up a single band vertical or horizontal dipole which is perfect for limited space or portable operation..

Model	Band	Bandwidth	Price
<b>PHF-160</b>	160M	12 kHz	<b>\$89.99</b>
<b>PHF-75</b>	75M	36 kHz	<b>\$29.99</b>
<b>PHF-40</b>	40M	60 kHz	<b>\$23.99</b>
<b>PHF-30</b>	30M	100 kHz	<b>\$23.99</b>
<b>PHF-20</b>	20M	150 kHz	<b>\$23.99</b>
<b>PHF-17</b>	17M	175 kHz	<b>\$23.99</b>
<b>PHF-15</b>	15M	200 kHz	<b>\$23.99</b>
<b>PHF-12</b>	12M	300 kHz	<b>\$23.99</b>
<b>PHF-10</b>	10M	500 kHz	<b>\$23.99</b>
<b>PHF-6</b>	6M	1000 kHz	<b>\$23.99</b>

### Thru Glass 2 Meter

**GM-144 \$39.99**  
Mounts on windshield and operates thru-the-glass to a tuning unit mounted on the inside. Features a 27-1/2 in. copper plated whip with black finish, 14 ft. of RG-58 coax and PL-259 connector. Gain is 2.5 dB over a 1/4 wave. VSWR is 1.5:1 through the band. Rated for 50W. Tunable.

*Some autos have "passivated glass" which does not permit thru-glass antennas to work. Check your manual or with your dealer.*



GM-144

### Thru Glass 2M/70CM

**GM-270 \$59.99**  
Dual Band 2M/70cm thru-the glass antenna featuring a 26-1/2 in. copper plated whip with black finish, 14 ft. of RG-58 coax and PL-259 connector. Gain is 2.6 dB over a 1/4 wave at 2m and 4.0 dB over 1/4 wave at 70 cm. VSWR is <2:1 through the bands. Rated for 50W. Tunable.



GM-270

#### HWTGSBNC \$34.99

Thru-the-glass Scanner Antenna for 112-1200 MHz receive only. Looks like GM-270, 22 in. tall, complete with cable connectors and mounting hardware. BNC connector.

### Multi-Band Mobile

#### AST-6BTB \$119.99

Suitable for passenger Vehicles, SUVs and light pick-ups. Covers 6 through 80 Meter Amateur Bands. Stainless Steel Whip, nickel-plated brass hardware and copper loading coils. Gloss black, gold labeled resonators and stainless steel whip. Suitable for portable or inexpensive fixed location operation. Mast fits any standard 3/8 x 24 thread mobile mount.

### Dual Band 2M & 70CM +

#### MO144-440 \$21.99

A dual band antenna to over it all! 19" Covers 2M/70cm plus works great for all band scanners 25 MHz-1.3 GHz. Stainless steel whip. Mount with 1-1/8" threads match 3/4" hole pro-am and Motorola TAD/TAE mounts. SWR less than 2:1. Gain: unity on 2m and 2.1dB over a 1/4 wave on 70 cm.

MO144-440

### Utility

#### PAQA \$10.99

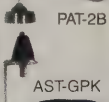
A unity gain stainless steel UHF/VHF whip that covers 136 to 866 MHz with cutting required. Nickel/chrome plated brass base with 1-1/8" threads to match Pro-Am and 3/4" hole Motorola TAD/TAE mounts. includes cutting chart.



PAQA

#### PAT-2B \$19.99

Black low profile Motorola-style trunk-lip mount with 17 ft. of RG-58 cable with PL-259 connector.



PAT-2B

#### AST-GPK \$29.99

Ground mount and radial kit for AST-6BTB



AST-GPK

### 2 Meters

#### PHB-144 \$29.99

5/8 wave, 3dB gain over 1/4 wave, covers 144-174 MHz. Tuned, low loss coil with 1-1/8" threads to match Pro-Am and 3/4 in. hole Motorola TAD/TAE mounts. Rated 100W, whip length 49 in.

#### CX-144 \$19.99

5/8 wave, 3 dB gain over 1/4 wave. Heavy duty matching coil with standard 3/8" x 24 chrome-plated base. Rated at 100W, length 49 in.

PHB-144

CX-144

#### MM-270B \$19.99

Dual Band 2M/70cm MICRO-MAG™ with a 1-1/8 in. black ABS rare earth magnetic base and stainless steel 20 in. whip. A 2M 1/4-wave and 70 cm 5/8-wave with unity gain and 1.5:1 VSWR throughout the bands. Rated for 50W on 2m and 25W on 70 cm. Has 9 ft. of RG-174 cable to a BNC.



MM-270B

#### PMM-3B \$19.99

Tri-Band (40W) 2M / (24W) 70cm + (15W) 824-896 MHz (Cellular/Scanner). Similar to VAA-002BN MICRO-MAG™ above. Only 13-1/2 in. tall with 9 ft. coax and BNC.



PMM-3B

#### PAS \$19.99

Motorola-style surface mount with 17 ft. of RG-58 cable and PL-259 connector. Installs in 3/4" hole in roof, fender or cowl mount.

#### PASMO \$7.99

Motorola-style 3/4" hole surface mount only, less cable and connector



PAS

PASMO

### Mounts

#### 105ADT \$6.99

Mount assembly. Nickel plated brass SO-239 and extra HD hex. For Plug to plug connections.



105ADT

#### 105HDT \$3.99

Mount assembly. Bolt mounts through a 1/2 in. hole. Extra HD-duty nickel plated brass hex. For plug to lug.



105HDT

#### 103S \$24.99

Quick disconnects for quick antenna removal One 3/8" x 24 base and five spring loaded twist-lock connectors.



103S

#### 120 \$9.99

Radio Hump Mount. Saw-tooth design grips without damage to carpet. Adjustable, steel, baked black finish.



120

#### 100ADT \$9.99

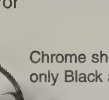
Extra heavy duty aluminum 3-way mirror mount. 3/8" x 24 mount and SO-239 connection



100ADT

#### 100ADN \$10.99

Extra heavy-duty aluminum double groove Mirror Mount with 3/8" x 24 mount and SO-239 connection.



100ADN

#### SS-100MOT \$23.99

Stainless steel 3-way Mirror Mount with a Motorola-style mount. Includes 10 ft. of RG-58 cable with PL-259.



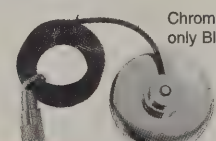
SS-100MOT

#### DAK-AD \$13.99

Dipole Adapter Mount with one Lug and one SO-239. Accepts two PHF or other 3/8" x 24 antennas for vertical or horizontal dipole.



DAK-AD



#### PAMB \$24.99

A black 3-3/4 in. diameter low profile magnet Motorola mount pre-wired with 12 ft. of RG-58 cable to a PL-259 connector.

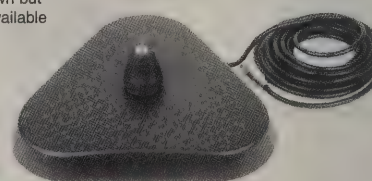
#### 301 \$16.99

4 in. dia. with 3/8" x 24 mount.

#### 401 \$19.99

5 in. dia. with 3/8" x 24 mount.

Chrome shown but only Black available

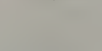


#### MM-3401 \$59.99

Heavy Duty magnet mount for NMO based antennas with adapter for 3/8" x 24 thread. Features three 5 in. dia. magnets on a heavy duty aluminum frame protected by an ABS plastic cover. Includes 17 ft. of RG-58 cable with PL-259 connector. Dim: 9-1/2" x 9-1/2" x 2 in. Wt: 8 lbs.

#### PAN-38 \$14.99

3/8" x 24 to NMO mount adapter



PAN-38

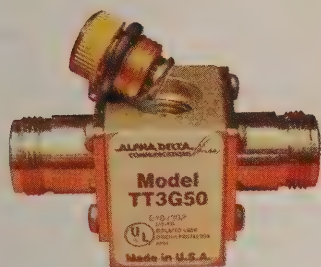


## Effective Atmospheric Surge Voltage Protection

**D**angerous static charges measuring 1000s of volts can be developed from local thunderstorms, high wind driven snow or sand; so potent they can actually puncture the dielectric of coaxial cable. Solid-state transceivers and other equipment in your ham shack are very vulnerable to these high-voltage charges so you should take every precaution to protect your equipment and shack from possible serious damage ... and ALPHA DELTA has the answer!

Special Arc-Plugs are used in ALPHA DELTA's Coax Switches, Surge Protectors and DELTA-C Center Insulator which "bleed off" slow rising static electricity charges from the feed line, routing them harmlessly to ground. This is far more effective than DC grounded baluns or chokes. But, even as effective as these devices are, you still need to do a good job of proper grounding as outlined in the ARRL Handbook, etc.

### Lightning Surge/EMI Protectors



- High quality custom design featuring a rugged cast aluminum housing and durable powder coat finish.
- Uses constant impedance micro-strip cavities that provide very low-loss and high isolation through the UHF frequencies
- Precision machined switch shaft and rotation mechanism with solid positive detent that snaps positively into each position.
- An easily replaceable Alpha Delta Arc-Plug™ Cartridge provides continuous surge protection.
- Automatically grounds unused antennas to reduce antenna interaction, noise and the effects of lightning and static charges.
- Rated for Full Legal power.

#### Models:

- DELTA-2B** - 2-position, with SO-239 connectors and rated for operation up to 500 MHz..... **\$59.99**  
**DELTA-2B/N** - 2-position, with N-type connectors, rated for operation up to 1.3 GHz..... **\$75.99**  
**DELTA-4B** - 4-position, with SO-239 connectors, rated for operation up to 500 MHz..... **\$89.99**  
**DELTA-4B/N** - 4-position, with N-type connectors, rated for operation up to 1.3 GHz..... **\$99.99**

### Antenna Insulator Kit with Surge Protection



- DELTA-C** - Includes a center insulator and two end insulators. The best for dipoles and wire antennas using either coaxial cable or balanced feed line. Highest quality and rugged - made from a virtually unbreakable UV/RF resistant material. Stainless steel hardware is used in the center insulator, and all connections are hard soldered. Handles full legal power. An easily replaceable built-in Arc-Plug® in the center insulator provides protection from the effects of lightning and static charges..... **\$29.99**  
**SEP** - Replacement Arc-Plug® cartridge. **\$15.99**  
**DELTA-CIN** - End insulator only ..... each **\$1.99**

## Limited Space Slopers



- Proven 1/4-wave sloper DX Performance.
- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, handles Full Legal Power.
- Factory assembled using insulated #12 copper wire, stainless hardware and 50 ft. of nylon rope.
- Direct 50 ohm coaxial feed, no tuner required. Go to Alpha Delta's website for sloper installation.

**DX-A** - A top performing 1/4-wave Twin Sloper 160, 80 and 40 meter DX antenna. Combines the DX firepower of the 1/4-wave sloper with the wide bandwidth of a 1/2-wave dipole. Installs like an inverted V. Legs are 67 ft. and 55 ft. long..... **\$100.99**

**DX-B** - A single wire high performance 1/4-wave DX Sloper with for 160, 80, 40 and 30 meters. Installs like 1/2 of an inverted V. The limited space installation requires only 60 ft. of space for amazing DX performance with the feed-end at 35 ft. and the low end only 8 ft. above the ground..... **\$110.99**

## Shortened Multibanders



- Alpha Delta "ISO-RES" inductors replace lossy traps and capacitors, rated for Full Power.
- Direct 50 ohm feed, no antenna tuner is required except for extended frequency coverage.
- Fully assembled with insulated #12 copper wire, stainless hardware and 50 ft. of nylon support rope.
- Includes the DELTA-C static protected center insulator and DELTA-CIN end insulators.
- Installs horizontally as an inverted V.

**DX-CC** - 80-40-20-15-10M, 82 ft. long. **\$160.99**

**DX-DD** - 80/40M, 82 ft. long ..... **\$130.99**

**DX-EE** - 40-20-15-10M plus 30-17-12M using a wide range antenna tuner, 40 ft. long ..... **\$140.99**

**DX-LB** - 160-80-40M, 100 ft. long. Typical bandwidth for 2:1 VSWR: 160M (20 kHz), 80M (40 kHz), 40M (300 kHz). Capable of full band coverage when using a wide range antenna tuner, 100 ft. **\$160.99**

**DX-LB PLUS** - Same as DX-LB above, but adds 20-10M with parallel wires, 100 ft..... **\$190.99**

## Full-Size Monoband Dipoles



- 50 ohm coax feed, no traps, handles full power
- Installs horizontally or as an Inverted V
- Rugged, full-size performance
- Fully assembled with #12 insulated copper wire, DELTA-C static protected center insulator, DELTA-CIN end insulators and includes 50 ft. of nylon support rope.

**DX-80** - 75/80 meters, 134 ft. long..... **\$70.99**

**DX-40** - 40 meters, 67 ft. long ..... **\$70.99**

**DX-20** - 20 meters, 34 ft. long ..... **\$70.99**

**UL LISTED** - Certified protection for your equipment from the effects of lightning and static charges. Much more effective than low-cost air-gap types.

The heart of this protector is an easily replaceable Arc-Plug™ - two electrodes hermetically sealed in a gas filled ceramic cylinder. Acting like a voltage dependent switch, the Arc-Plug™ can repeatedly carry large currents to ground for brief periods.

If you need to run control voltages through the coax, the impedance compensated thru-line cavity design allows it to pass thru instead of having to "wire around" as with some other DC-blocked designs.

All models are completely weather proofed by the use of O-ring seals and all hardware is stainless steel.

**Wide Frequency Range:** DC thru 3 GHz, much wider than narrow band DC blocked or stub designs.

**Low Insertion Loss:** 0.1dB @ 1 GHz, 0.2dB @ 2 GHz, and only 0.5dB @ 3GHz, typical.

#### Models:

**ATT3G50**

0-3000 MHz; 200W; N Female ..... **\$59.99**

**ATT3G50-HP**

0-3000 MHz; 2000W; N Female ..... **\$59.99**

**ATT3G50U**

0-500 MHz; 200W; UHF (SO-239)..... **\$49.99**

**ATT3G50U-HP**

0-500 MHz; 2000W; UHF (SO-239)..... **\$49.99**

#### Replacement Arc-Plug Cartridges

**ATT/3G50** for ATT3G50 or ATT3G50U.. **\$14.99**

**ATT-HP/3G50HP** for

ATT3G50-HP and ATT3G50U-HP ..... **\$14.99**

#### Important Notice:

The Defense Logistics Agency (DLA) has assigned a National Stock Number (NSN) to the TT3G50 Coax Surge Protector and 3G50 ARC-PLUG™ Cartridge for use in all Military and NATO applications, Worldwide.

[www.alphadeltacom.com](http://www.alphadeltacom.com)



## Verticals

## hy-gain

## Triband Beams

**AV-18HT** Hy-Tower 10/15/20/40/80M Vertical – The premier, best performing vertical in the world. Constructed with rugged hot-dipped galvanized steel tower sections. Features automatic band selection using a unique stub decoupling system which effectively isolates various sections of the antenna so that an electrical 1/4 wavelength (or odd multiple) exists on all bands. Includes all stainless steel hardware & tilt-over base. Use a good ground or 1/4-wavelength radials for best performance .. **Drop Ship \$949.99**

### Specifications

- Bands: 10, 15, 20, 40, and 80 Meters
- Gain: Unity 20, 40, 80; 2 dB on 10/15
- 80M Bandwidth: 250 kHz @ 2:1 VSWR
- Power: 1500W PEP
- Height: 53 feet
- Weight: 114 pounds
- Wind Survival: 75 MPH

**AV-18HT-JR** Hy-Tower Jr. – Automatic band selection with a unique stub decoupling system which isolates various sections so that a full-size electrical 1/4 wavelength exists on 40, 20, 15 and 10 meters with cage loading on 80 meters. Requires a good ground system or 1/4-wavelength radials for best performance. It has almost no losses - your ground system determines efficiency. It is automatic bandswitching, fed with 50 ohm coax and has low SWR over an exceptional wide bandwidth with a VSWR <1.2:1 at resonance. High-strength, heavy walled 2 in. aluminum main radiator swaged at the top. Mounts on 1-1/4 in. pipe..... **\$349.99**

### Specifications:

- Bands: 10, 15, 20, 40, and 80 Meters
- Power: 1500W PEP
- Height: 39 ft.
- Weight: 25 pounds
- Survival: Self-supporting up to 40 mph
- Mast Size: 1-1/4 in.

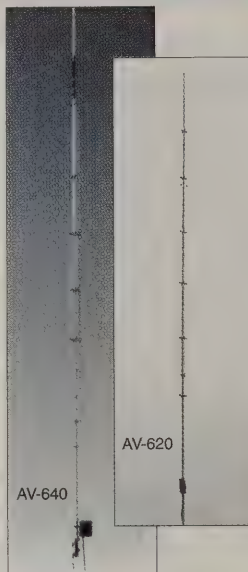
**AV-14AVQ** 10/15/20/40M Vertical – A self supporting automatic bandswitching vertical that delivers outstanding performance and a very low angle radiation pattern. All stainless steel hardware..... **\$169.99**

### Specifications:

- Bands: 10, 15, 20, and 40 Meters
- Power: 1500W PEP
- Height: 18 ft.
- Weight: 9 pounds
- Wind Survival: 80 MPH
- Mount: 1.5 in - 1.625 in. pipe

**AV-18AVQ II** 10/15/20/40/80M Vertical Similar to AV-14AVQ except includes 80M operation. Height: 18 ft., 12 lbs .. **\$229.99**

**DX-88** 10/12/15/17/20/30/40/80M Vertical All bands easily tuned with adjustable capacitors. Height: 25 ft., 18 lbs..... **\$369.99**



**AV-640** 6 to 40 Meter Vertical – Automatic bandswitching with a single coax feed. Uses 1/4-wave stubs on 6, 10, 12, and 17 meters and efficient end loading coil and capacity hats on 15, 20, 30, 40 meters. Instead of typical lossy can traps, the AV-640 resonators are placed in parallel not in series and end loading of the lower HF bands allows efficient operation with a manageable antenna height. An effective counter poise system replaces conventional ground radials. Mounts easily on decks, roofs, and patios..... **\$399.99**

### Specifications:

- Bands: 6, 10, 15, 17, 20, 30, and 40 Meters
- VSWR at resonance (typical): 1.5:1
- Power Handling: 1500W, key down 2 minutes
- Vertical Radiation Angle: 17 degrees
- Horizontal Radiation Angle: 360 degrees
- Height: 25.5 ft.
- Weight: 10.5 pounds
- Wind surface area: 2.5 square feet
- Wind Survival: 80 mph

**AV-620** 6 to 20 Meter Vertical - No traps, no coils, and uses an effective counterpoise that replaces traditional radials. End fed design using a broadband matching unit with automatic bandswitching and single coax cable feed. Wide VSWR bandwidth, bands are individually tunable..... **\$299.99**

### Specifications:

- Bands: 6, 10, 15, 17, and 20 Meters
- VSWR at resonance (typical): 1.5A
- Power: 1500W, 2 minutes key down
- Vertical Radiation Angle: 17°
- Height: 22.5 ft.
- Weight: 10.5 pounds
- Wind surface area: 2.4 sq. ft.
- Wind Survival: 80 MPH

## Multi-Band PATRIOT Vertical Antennas

- No Radials
- No Traps
- No Ground
- No Tuning
- Handles 1500W



**TH-7DX** 7-Element Tri-Band Beam, 10/15/20 Meters – A dual driven 7-element system maintains a VSWR of <2:1 across all bands, including 10 Meters. No compromise on gain performance. A unique combination of trapped and mono band parasitic elements produces a huge front-to-back ratio. Includes a rugged diecast aluminum boom-to-mast clamp, heavy gauge element-to-boom brackets and a BN-86 ferrite balun..... **\$799.99**

### Specifications:

- Gain: 8.77dBi • F/B: 21dB • Power: 1500W PEP
- Boom Length: 24 ft. • Longest Element: 31 ft.
- Turning Radius: 20 ft. • Mast Diameter: 1.5-2.5 in.
- Surface Area: 9.4 sq. ft. • Wind Load @ 80 mph: 240 lbs • Wind Survival: 100 mph • Weight: 75 lbs

**TH-5MK2** 5-Element Tri-band Beam, 10/15/20 Meters – Broadbanded with outstanding gain. It features five elements on a 19 ft. boom with four active elements on 10, 15 and 20 meters. Separate dielectric H-Q traps on each band provides a maximum front-back ratio. Beta Match tuning, DC grounded. Stainless steel hardware. Includes BN-86 balun ..... **\$699.99**

### Specifications:

- Gain: 8.3dBi • F/B Ratio: 20dB • Power: 1500W PEP
- Boom Length: 19 ft. • Longest Element: 31.5 ft.
- Turning Radius: 18.42 ft. • Mast Dia.: 1.5 - 2.5 in.
- Surface Area: 7.4 sq. ft. • Wind Load @ 80 mph: 190 lbs • Wind Survival: 100 mph. • Weight: 57 lbs.

**TH-3MK4** 3-Element Tri-band Beam, 10/15/20 Meters – The most gain for the money in a full-power, full-size durable tri-bander. Impressive gain and front-to-back ratio. Fits on an average lot and the 4-piece boom makes it ideal for DXpeditions. DC grounded, full power Hy-Q traps and rugged boom to mast bracket. Mounts on a standard 2 in. mast. BN-86 balun recommended..... **\$469.99**

### Specifications:

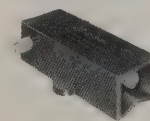
- Gain: 8.0dBi • F/B Ratio: 25dB • Power: 1500W PEP
- Boom Length: 14 ft. • Longest Element: 27.42 ft. • Turning Radius: 15.33 ft. • Mast Diameter: 1.9-2.5 in.
- Wind Area: 4.6 sq. ft. • Wind Load @ 80 mph: 118 lb • Wind Survival: 95 mph • Weight: 35 lbs.

**TH-3JRS** 3 Element Tri-Band Beam, 10/15/20 Meters – The most popular, fits on most lots. Same top performance as the full power TH-3MK4 in a compact 600W PEP design. .... **\$359.99**

### Specifications:

- Gain: 8.0dBi • F/B Ratio: 25dB • Power: 600W PEP
- Boom Length: 14.75 ft. • Longest Element: 27.25 ft. • Turning Radius: 14.3 ft. • Mast Dia: 1.25-2.0 in. • Wind Area: 3.35 sq. ft. • Wind Load @ 80 mph: 83 lbs • Wind Survival: 80 mph • Weight: 21 lbs.

**BN-86** Broadband 50Ω Ferrite Balun – Usable from 3 to 30 MHz. Recommended for all HF yagi antennas. It provides improved front-to-back ratio. Comes with clamp to bolt to boom. Protected SO-239 connector..... **\$79.99**



## Single Band HF Beams

- Stronger, lighter, less surface area & years of High Performance
- Exclusive 50 ohm BetaMatch™ for Direct Coax feed with great match and DC grounding • A BN-86 50Ω Ferrite Balun is recommended for improved front-to-back ratio.

**LJ-103BA** 10 Meters, 3 Elements, 8 ft. Boom, 7.9dBi Gain..... **\$159.99**

**LJ-105CA** 10 Meters, 5 Elements, 24 ft. boom, 10.8dBi Gain... **\$289.99**

**LJ-153BA** 15/12 Meters, 3 Elements, 12 ft. boom, 7.9dBi Gain .. **\$199.99**

**LJ-204BA** 20 or 17 Meters, 4 Elements, 26 ft. Boom, 8.2dBi Gain **\$499.99**





**MFJ**



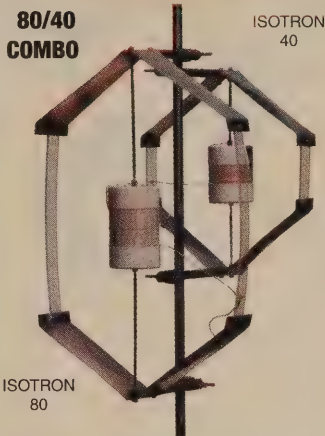
**1622 Apartment Antenna** – Operate 40 thru 10M, 6M and 2M, up to 300W P.E.P. Tuning is accomplished by changing the tap on the highly efficient air-wound coil and adjusting the counterpoise for best SWR. Its universal mount/clamp lets you easily attach it to window frames, balconies and railings. It also works great indoors mounted to a desk, table or bookshelf. The 5.5 ft. radiator collapses to 2.5 ft. for transport or storage. Includes 50 ft. of coaxial cable, RF choke balun, 50 ft. counterpoise wire and safety rope..... **\$99.99**

**1910 Telescoping Fiberglass Mast** – Great for portable and temporary use – traveling, camping, hotels, hamfests, field day, DX-peditions. Use to construct loops and quads. Pull out each section and twist to lock, strong fiberglass, flexes to resist breaking. Extends to 33 ft. and collapses to 3.8 ft. Bottom section 1.75 in. diameter; 3.3 lbs... **\$79.99**

**Telescoping Whips** – Available in 12 and 10 ft. lengths. Made of 1/2 in. diameter plated brass with a 3/8 x 24 threaded stud. Use as an antenna by itself for 10/12/15M or use it on top of a screwdriver or other base loaded antenna to greatly improve the efficiency. Use two to make a portable dipole.

**1956** 12 ft. extended, 22.5 in. collapsed... **\$29.99**  
**1954** 10 ft. extended, 29 in. collapsed..... **\$22.99**

**ISOTRON**  
**BILAL COMPANY**  
[www.isotronantennas.com](http://www.isotronantennas.com)

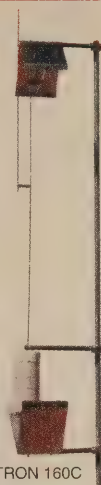


ISOTRON 80

ISOTRON 40

**Simple & Effective...**  
**ANTENNAS FOR VERY LIMITED SPACE**

- Easy, quick, and simple installation.
- Excellent portable operation for emergencies, RV's, field day, motels, Maritime operation.
- Not dependent on a grounding system.
- Tunes and performs without radials.
- Unobtrusive appearance, making a very discreet looking installation.
- Excellent Low Noise reception and transmitting quality performance is not compromised by its compact design.
- Multi-band operation on one feedline with back to back mounting. Any other combination of three bands may be substituted on special order.
- Durable construction, can be used in extreme weather conditions, will not bend in high winds. No motors or mechanical tuning devices to fail.



ISOTRON 160C

**Common Specifications:** 1000W PEP power rating (300W, CW, AM, FM, RTTY) • 50-75Ω coax feed • Omni-directional radiation pattern • Bandwidth shown is within 2:1 SWR but may vary with environment • Stainless steel fasteners • Zinc plated u-bolts • Tempered aluminum components • Cast acrylic and PVC insulators • THHN #14 solid copper coils • 85 mph wind rating

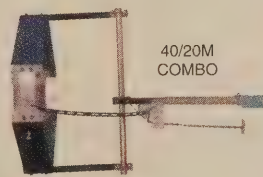
Model	160C	80	40	20	15	10	6
Band	160 meters	80 meters	40 meters	20 meters	15 meters	10 meters	6 meters
Freq. (MHz)	1.8-2.0	3.5-4.0	7.0-7.3	14-14.35	21-21.450	28-30	50-54
hxwxh (in.)	114x16x15	32x16x15	22x16x15	21x8x4	21x1½x4	16x1½x4	16½x2x4
BW	100 kHz	110 kHz	250 kHz	350 kHz	450 kHz	1 MHz	1.25 MHz
Windload (sq. ft.)	1.697	1.37	1.0	0.23	0.23	0.16	0.13
Weight	7 lbs.	6 lbs.	4 lbs	2 lbs	2.0 lbs	1.5 lbs	1.5 lbs.
PRICE	<b>\$173.99</b>	<b>\$109.99</b>	<b>\$88.99</b>	<b>\$78.99</b>	<b>\$78.99</b>	<b>\$78.99</b>	<b>\$78.99</b>



ISOTRON 20



20/15/10M COMBO



40/20M COMBO

**80/40 COMBO** – (Top/left) Same as individual model specs above. Operate 80/40M using one feed line. Dim: 32"h x 16"w x 30"d; 10 lbs..... **\$188.99**

**20/15/10 COMBO** – Same as individual model specifications. Operate 20/15/10M using one feed line. Dim: 4"h x 32"w x 30"d; 10 lbs..... **\$198.99**

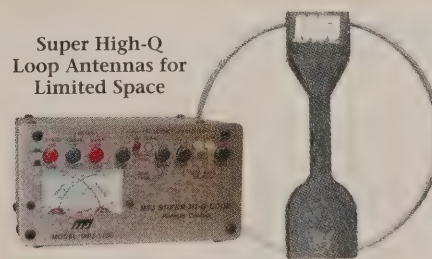
**40/20 COMBO** – Offered because the 40 and 20 meter bands were found to be extremely useful for the amateur radio support during the 2005 weather disasters. Improved with a new enhanced coil design that makes tuning easier and more tolerant to higher power. Dim: 22"h x 16"w x 32"d; 6 lbs..... **\$167.99**

**SPECIAL ORDER!** – You can make up your own combination. Substitute 30m for 40m in the 80/40 Combo or 17m for 15m in the 20/15/10 Combo. MARS, CAP and Commercial models available.

**Portable 40-10M Antenna**

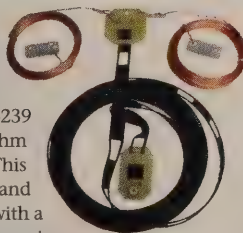


**Super High-Q Loop Antennas for Limited Space**



**1621** – A complete portable 10 through 40 meter antenna for use in practically any location – apartment, campsite, hotel, even at the beach. Consists of a 54 in. telescoping whip antenna mounted on a sturdy, cabinet which contains a built-in antenna tuner and field strength meter. Handles 200W PEP SSB and includes 50 ft. of RG-58 coax. Just place the unit in any electrically clear location, set the bandswitch, apply power, and tune the capacitor for maximum field strength. The whip is easily removable and collapses to 22 in. for convenient transport. Dim: 6"w x 3"h x 6"d, 3 lbs..... **\$99.99**

**1786** – Made with 1.050 in. diameter round tubing and only 36 in. in diameter, operates 10 to 30 MHz continuously and handles 150W. Mount vertically for low angle DX or horizontally for local work. Automatic tuning remote control box tunes to the desired band and fast/slow tune buttons and built-in two range Cross-Needle SWR/Wattmeter let you quickly tune to an exact frequency. All welded construction, no mechanical joints, polished butterfly capacitor. Operates thru the coax without control cable.. **\$399.99**  
**1788 Super High-Q Loop Antenna** – Same as the MFJ-1786 but covers 40-15 meters..... **\$449.99**



**1778 G5RV All-Band Antenna**  
A center fed, 102 ft. flat top antenna with a 300Ω twin-lead feeder system and SO-239 connector to accept a 52 ohm coax run from the shack. This unique design provides all band coverage from 80-10 meters with a nominal VSWR. For versatility, using an antenna tuner is recommended with most rigs. Easily installs as a flat top, inverted-V or sloper. It also works well on 160 meters operating as a Marconi with a proper tuner and good RF ground. Handles 1500W ..... **\$39.99**



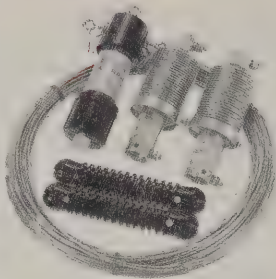


**UNADILLA**

### 5-Band Antenna Kit

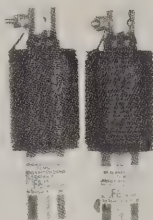
#### W2AU/W2VS

Resonant on 40 and 80 meters. On 10, 15 and 20 meters the SWR typically 2:1-4:1, and with some transceivers a transmatch may be needed. Length is 110 ft., rated for 2 KW PEP. Includes a pair of 40M traps, W2AU balun, end insulators and 120 ft. of #14 stranded antenna wire..... **\$85.99**



### REYCO Antenna Traps

Add these traps to your dipole for multiband operation on two to seven bands. Add the 40M pair (KW-40) and get "perfect dipole" performance on 40 and 80M. Add five pair and work 10, 15, 20, 40, 80 & 160M with low SWR. Selecting traps: List the bands you want to cover, listing the Highest Frequency band first. You will need a pair of traps for each band except the one with the Lowest Frequency.



<b>KW-10</b> - 10 Meters.....	pair	<b>\$41.99</b>
<b>KW-12</b> - 12 Meters.....	pair	<b>41.99</b>
<b>KW-15</b> - 15 Meters.....	pair	<b>41.99</b>
<b>KW-17</b> - 17 Meters.....	pair	<b>41.99</b>
<b>KW-20</b> - 20 Meters.....	pair	<b>41.99</b>
<b>KW-30</b> - 30 Meters.....	pair	<b>42.99</b>
<b>KW-40</b> - 40 Meters.....	pair	<b>42.99</b>
<b>KW-60</b> - 60 Meters.....	pair	<b>46.99</b>
<b>KW-80CW</b> - 80 Meters CW.....	pair	<b>48.99</b>
<b>KW-80F</b> - 80 Meters Phone.....	pair	<b>48.99</b>

### W2AU Ferrite Baluns

Replaces the antenna center insulator. Smooth unbalanced to balanced transition ensures proper current distribution. DC grounded for lightning protection, center support hook. Usable from 1.8-40 MHz, 2KW PEP rating, SO-239 connector.

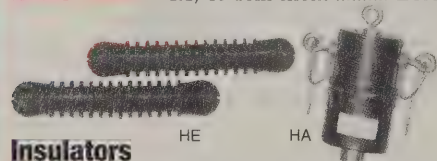


<b>W2AU 1:1</b> - 1.1, 1.8-40 MHz ferrite.....	<b>\$24.99</b>
<b>W2AU 4:1</b> - 1.1, 1.8-40 MHz ferrite.....	<b>24.99</b>
<b>W2AU BEAM</b> - 1.1, Beam balun.....	<b>24.99</b>

### W2DU Choke Baluns

High efficiency, transformerless 1:1 baluns. The HF model is the only one available that works on 160 meters! All rated to handle a VSWR up to 5:1 at the legal limit, allowing use with an antenna tune.

<b>W2DU-HF</b> - 1:1, 1.8-30 MHz Choke.....	<b>\$26.99</b>
<b>W2DU-VHF</b> - 1:1, 30-250 MHz Choke.....	<b>26.99</b>
<b>W2DU BEAM</b> - 1:1, 40-10m choke.....	<b>26.99</b>



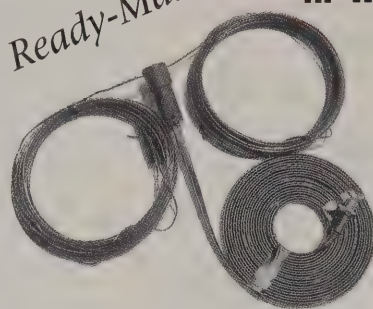
### Insulators

**HA AN-Insulator™** - A strong center dipole insulator with built-in lightning protection. SO-239 connector, 3.5" long x 1.75" diameter..... **\$9.99**  
**HE END-Insulator™** - Shatter-proof antenna end insulators. Tough, includes voltage path extenders, positive wire track. Low loss, lightweight and long leakage path. 5.5" long x 1" diameter ... pair **\$6.99**

**RadiWavz**

Ready-Made

### HF WIRE ANTENNAS



The G5RV antenna, with its special feeder arrangement, is a Multiband center-fed antenna with very efficient operation on all HF bands from 3.5-30 MHz. Made with of high quality copper coated steel UV insulated wire on the top and 300 ohm twin lead terminating into a SO-239 connector.

<b>G5RV</b> 102 ft. long, 32 ft. tall.....	<b>\$39.99</b>
<b>G5RV JR</b> 51 ft. long, 14 ft. tall.....	<b>28.99</b>
<b>G5RV LITE</b> 68 ft. long, 32 ft. tall.....	<b>48.99</b>
<b>G5RV MAX</b> 204 ft. long, 56 ft. tall.....	<b>75.99</b>



Nothing beats a **Tuned Dipole** for simple, efficient, and versatile performance. With a dipole you configure the antenna as an inverted-V, flat top, or "L". The Dipole works best at the band that it is designed for, however with an antenna tuner coverage may be expanded. The included 1:1 balun isolates and converts the unbalanced transmission line to balanced for improved operation.

<b>10MC/BALUN</b> 17 ft. 10M dipole w/balun	<b>\$37.99</b>
<b>12MC/BALUN</b> 19 ft. 12M dipole w/balun..	<b>37.99</b>
<b>15MC/BALUN</b> 22 ft. 15M dipole w/balun..	<b>37.99</b>
<b>17MC/BALUN</b> 26 ft. 17M dipole w/balun..	<b>37.99</b>
<b>20MC/BALUN</b> 32 ft. 20M dipole w/balun..	<b>39.99</b>
<b>30MC/BALUN</b> 46 ft. 30M dipole w/balun..	<b>47.99</b>
<b>40MC/BALUN</b> 66 ft. 40M dipole w/balun..	<b>47.99</b>
<b>80MC/BALUN</b> 130 ft. 80M dipole w/balun	<b>59.99</b>
<b>160MC/BALUN</b> 250 ft. 160M dipole w/balun	<b>79.99</b>

### BALUNS

**B-11A** 1:1 Voltage BALUN - Trifilar wound Air Core type with a 1:1 impedance ratio. Rated for 1500W PEP from 1.8 to 30 MHz. Use for transforming a 50Ω unbalanced load to a 50Ω balanced load. For Dipoles, beams, etc. Body dim: 6.5" long x 1.75" diameter ... **\$21.99**

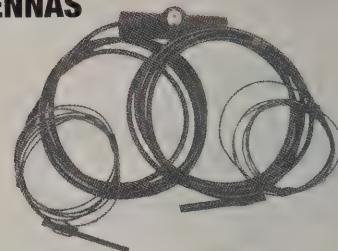
**B-14VA** 4:1 Voltage BALUN - Air core type with a 4:1 impedance ratio. Rated for 1500W PEP from 1.8 to 30 MHz. Use for matching a 200Ω load to a 50Ω load, or a 300Ω load to a 75Ω load. Body dim: 6.5" long x 1.75" diameter..... **\$25.99**

**B-19TX** 9:1 Isolation/Current BALUN - Rated for 1500W PEP from 1.8 to 30 MHz. Use for matching a 450Ω load to a 50Ω load, or 675Ω load to a 75Ω load. Typical uses are for Rhombics, Delta loops, and V-beams, folded tilted terminated dipole and end-fed Vee antennas. Body dim: 6.5" long x 1.75" diameter ..... **\$29.99**

**DPH** - Weatherproof antenna support without a balun and with SO-239 connector. Body dim: 4" long x 1.75" diameter..... **\$9.99**

### TWINLEAD/LADDER LINE

<b>TL308100</b> 100 ft. 18 gauge 300Ω Twinlead.....	<b>\$24.99</b>
<b>TL454100</b> 100 ft. 14 gauge 450Ω Ladder line.....	<b>\$54.99</b>
<b>TL458100</b> 100 ft. 18 gauge 450Ω Ladder line.....	<b>\$24.99</b>



The **DOUBLE BAZOOKA ANTENNA** - An extremely broad banded 1/2-Wave Coaxial Antenna which operates efficiently across an entire ham band with little change in SWR. No balun required. Feeds directly with 50 ohm coax.

<b>40M-DBZ</b> 70 ft. 40M Double Bazooka.....	<b>\$59.99</b>
<b>75M-DBZ</b> 127 ft. 75M Double Bazooka.....	<b>79.99</b>
<b>160M-DBZ</b> 265 ft. 160M Double Bazooka.....	<b>129.99</b>

### COAXIAL JUMPERS

Premium Low Loss Coax with PL-259 Connectors and Strain Relief

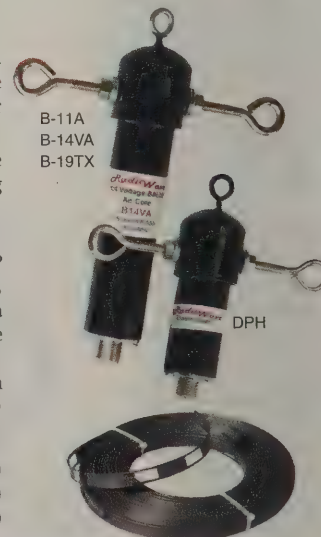


#### RG-213

<b>J213-U1</b> 1.5 ft. RG-213 w/PL-259's.....	<b>\$14.99</b>
<b>J213-U3</b> 3 ft. RG-213 w/PL-259's.....	<b>16.99</b>
<b>J213-U6</b> 6 ft. RG-213 w/PL-259's.....	<b>17.99</b>
<b>J213-U12</b> 12 ft. RG-213U w/PL-259's.....	<b>24.99</b>
<b>J213-U25</b> 25 ft. RG-213 w/PL-259's.....	<b>34.99</b>
<b>J213-U50</b> 50 ft. RG-213 w/PL-259's.....	<b>55.99</b>
<b>J213-U75</b> 75 ft. RG-213 w/ PL-259's.....	<b>73.99</b>
<b>J213-U1X</b> 100 ft. RG-213 w/PL-259's.....	<b>94.99</b>
<b>J213-U12X</b> 125 ft. RG-213 w/PL-259's.....	<b>114.99</b>
<b>J213-U15X</b> 150 ft. RG-213 w/PL-259's.....	<b>136.99</b>

#### RG-8X

<b>J8X-U1</b> 1.5 ft. RG-8X w/PL-259's.....	<b>\$9.99</b>
<b>J8X-U3</b> 3 ft. RG-8X w/PL-259's.....	<b>11.99</b>
<b>J8X-U6</b> 6 ft. RG-8X w/PL-259's.....	<b>14.99</b>
<b>J8X-U12</b> 12 ft. RG-8X w/PL-259's.....	<b>22.99</b>
<b>J8X-U25</b> 25 ft. RG-8X w/PL-259's.....	<b>29.99</b>
<b>J8X-U50</b> 50 ft. RG-8X w/PL-259's.....	<b>37.99</b>
<b>J8X-U75</b> 75 ft. RG-8X w/PL-259's.....	<b>49.99</b>
<b>J8X-U1X</b> 100 ft. RG-8X w/PL-259's.....	<b>63.99</b>





## BROADBAND ANTENNAS

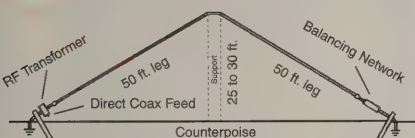
Field proven broadband HF antennas that operate all frequencies continuously from 1.8 to 30 MHz without an antenna tuner, plus 6 meters. The single antenna solution for amateur operation and more. If you are participating in various programs such as MARS, ARES, RACES or CAP these antennas will work all of your frequencies with a VSWR of 2:1 or better without measurements or tuning. It's a low noise design with outstanding receive capability. Provides better performance than any vertical and very reliable.



### Broadband Folded Dipoles

These antennas operate all HF frequencies continuously within their design range without an antenna tuner, plus 6M with a tuner. Install as flat top, inverted vee, or sloper. Constructed of #14 stranded copperweld wire. Unbalanced 50 ohm input with SO-239 connector. Handles 2KW PEP. Shipped completely assembled.

- BWD-20** - 14-30 MHz, 20 ft. long .... **\$269.99**
- BWD-45** - 7-30 MHz, 45 ft. long ..... **\$269.99**
- BWD-65** - 4-30 MHz, 65 ft. long ..... **\$279.99**
- BWD-90** - 1.8-30 MHz, 90 ft. long ... **\$279.99**
- FDMK** Folded Dipole - 3-pole mtg. kit. **\$45.99**



### Broadband End-Fed Ve

**AC-1.8-30** - This unique design covers 1.8-30 MHz continuous with less than a 2:1 VSWR without using an antenna tuner + 6M with a tuner. Installs with termination at both ends to grounded stakes (not included), and the center about 25 ft. above the ground. *This antenna requires an adequate ground or it will not work properly.* Omnidirectional, high angle radiation at lower frequencies. Increased angle from 5-15 MHz; above 15 MHz, more directional in the line of the antenna wire. In limited space, wire may be shortened without greatly affecting the VSWR, but lowering radiation efficiency. It's extra quiet to capture weak signals. Handles 2KW PEP. Comes fully assembled with #14 stranded copperweld wire, 110 ft. long. Weighs 7 lbs... **\$279.99**

## WA1FFL Ladder-Loc®

### LADDER LINE CARRIER INSULATOR/SUPPORT

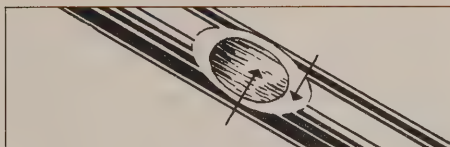
Provides a secure attachment for 450 ohm ladder type transmission line to dipoles and other wire antennas. Minimizes feedline flexing at the antenna feedpoint and ensures a long lasting, trouble-free installation. A top attachment point is provided for a support rope. UV resistant ..... **\$12.99**



## Off Center-Fed Six Band Antenna

**OCF** - Covers 75/80, 40, 20, 17, 12 & 10 meters without the use of an antenna tuner. The rugged broadband design features an integral 6:1 balun and flexible, 65 strand 12 ga. PVC coated wire. The balun is permanently sealed from the weather, and is internally crimped and soldered to a silver/Teflon® SO-239 connector, a stainless eyebolt provides for attaching a support rope. Overall length is 135 ft. long (45/90 ft. sections); alternately can be erected in only 68 ft. but with 40, 20 & 10 meter operation only. Rated 300W CW/SSB, fully assembled. Wt: 7 lbs.... **\$191.99**

## MEADOW RIDGE PRODUCTS, INC.



### COPPERWELD® Antenna Wire

Forge-welding makes the two metals inseparable! Solid bare copper-over-steel wire - the best for antennas. Its very strong, the steel core has very little stretch and long service life. The copper covering provides low RF resistance and solders easily. Available in 12, 14 or 18 gauge.

- AN-122** - 100 ft. #12 ..... **\$39.99**
- AN-123** - 150 ft. #12 ..... **49.99**
- AN-124** - 250 ft. #12 ..... **79.99**
- AN-126** - 500 ft. #12 ..... **139.99**
- AN-128** - 1000 ft. #12 ..... **239.99**
- AN-148** - 1000 ft. #14 ..... **Closeout 169.99**
- AN-181** - 250 ft. #18 ..... **24.99**
- AN-182** - 500 ft. #18 ..... **39.99**

## synthetic textiles, inc.

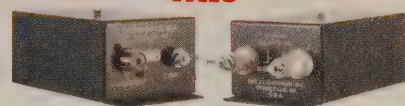


**Black Dacron® Polyester Rope** - Constructed of strong double braid Dacron® polyester. It's colored black for UV protection and has excellent resistance to weather, mildew and abrasion. The rope ties and cuts easily and the ends seal with the short application of a small flame or hot tool.

After a small initial "set" due to tightening of the braid, it has virtually no long term stretch, making it ideal for supporting dipoles, long wires, etc. Also, great for non-resonant guying of masts or towers. Use for overhead and side boom support on beam antennas to eliminate conductors in the RF field which can cause pattern distortion.

- 100'** - 100 ft., 260+ lbs. strength, 3/32 in. **\$9.99**
- 100' 3/16** - 100 ft., 770+ lbs., 3/16 in. **18.99**
- 100' 5/16** - 100 ft., 1790+ lbs., 5/16 in. **26.99**
- 350'** - 350 ft., 770+ lbs., 3/16 in. **49.99**

## MFJ



**912 W9INN Remote Balun** - Converts unbalanced coaxial line to balanced ladder line. When running balanced line you can still use coax from your rig, thru walls, etc. to a more convenient location to attach the feeders without detuning. Uses a 2-core 4:1 balun wound with teflon® wire and heavy-duty ceramic feed-thru insulators. Handles 1500W. SO-239 connector, ground post and mounting holes. Dim: 3.25"w x 2.25"h x 7"d..... **\$59.99**

## W4RT YAESU ACCESSORIES

### One-Plug Filters

Direct plug-in W4RT-built Collins mechanical Filters for the Yaesu FT-817(ND), 857(D) and 897(D) radios. Improve your CW/PSK experience with a 300 Hz (8-pole) or 500 Hz (7-pole) filter which are essentially identical to the Yaesu YF-122C and YF-122CN. The 300-Hz is often preferred by CW & PSK contesters.

The 2.3 kHz SSB filter contains a 10-pole Collins Mechanical Filter identical to the Yaesu YF-122S. "Hearing" is improved and tests have demonstrated that a 2-dB improvement in talk power can be realized by using this filter rather than the stock MuRata ceramic filter. All filters are properly terminated and easy to install. Just remove the cover, plug-in, and set the radio's menu as explained in the respective manuals.

- OPFYCW300** 300 Hz filter ..... **\$114.99**
- OPF-CW** 500 Hz filter..... **\$109.99**
- OPF-SSB** 2.3 kHz filter ..... **\$129.99**

### Speech Compressor

#### OBP-STD

**One BIG Punch**  
Installs inside the MH-31 microphone used with the Yaesu FT-817, 847, 857 & 897 series transceivers. An AF-based compressor configured to provide a 5dB increase in talk power with good audio quality. Requires no additional power, and turns On/Off with the MH-31's Tone switch ..... **\$49.99**

**OBP-UNIV** - The One BIG Punch for microphones having 7-12V DC available, like the Yaesu MH-36 used with the FT-100/D or the Icom HM-103 with the IC-706 radios. .... **\$49.99**



### 5VB Vinyl Boot Kit

Slide on coax before installing connector.

Apply silicone grease, slide the boot up to seal, waterproof and protect from the elements. Waterproof connector boots come in a package of five along with five individual tubes of silicone grease included ..... **5 pack \$15.99**

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Information

## Lakeview Co., Inc.

### WD4BUM HAMSTICKS®

Two-Piece Monoband Mobile Antennas Hamstick 75 thru 10 meter models consist of a 47 inch long x 1/2 inch diameter fiberglass base section with the loading coil wound over its length and covered with black PVC shrink tubing. It's fitted on one end with a 3/8" X 24" brass base fitting that fits most amateur mobile mounts. A black 48 inch tempered stainless steel whip telescopes into the top of the base section and provides for frequency adjustment. The 6 meter model has a 34 inch base section and whip. Convenient frequency vs length graphs are included with the instructions.

If the antenna shows a SWR of 1.5 to 1 or better, no matching should be necessary. However, if it is, which may be especially true on 40 and 75m, you can capacitively match the base using values recommended in the instructions. If you frequently change bands you can use the WD4BUM INDUCTI-MATCH (IM-1) which consists of an impedance matching coil that simply installs at the base of the antenna. Using the supplied clip lead, you just tap up the coil for the best match.

#### Models

<b>9106</b> (6M)	<b>9110</b> (10M)	<b>9112</b> (12M)
<b>9115</b> (15M)	<b>9117</b> (17M)	<b>9120</b> (20M)
<b>9130</b> (30 M)	<b>9140</b> (40M)	<b>9160</b> (60M)
<b>9175</b> (75M)		

All Hamsticks ..... each **\$39.99**

**901** Dipole Mount - for 2 Hamsticks .. **19.99**

**IM-1** Inducti-Match ..... **26.99**

**TM-1** License Plate Mount - 3/8" x 24" **49.99**



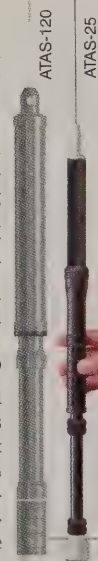
### ATAS-25 HF/VHF/UHF QRP Field

**Antenna** - Perfect for portable use with the Yaesu FT-100D, FT-817, FT-857 or FT-897. Covers 7, 14, 21, 28, 50, 144 and 430 MHz with band switching accomplished by changing supplied elements and adjusting coils. Matched SWR is less than 2.0:1; Power: (HF/6M) 100W SSB/CW @ 50% duty cycle (50W AM/FM); (144/430 MHz) 50W all modes; Requires camera-type tripod (not supplied); SO-239 base. Dim: 7.2 ft. high; 2.05 lbs. .... **\$249.99**

### ATAS-120 HF/6/2/430 Motorized

**Tuning Antenna** - Motor resonates the radiating element for lowest SWR using control voltages sent via the coaxial cable from Yaesu transceivers equipped for the ATAS system. Without duplexer, coaxial cable must be moved manually to correct jack when switching (VHF/UHF). Solid, sliding sections tune quickly. Mounts directly onto a standard Diamond or Comet mobile mount. Power: 120W maximum; Less than 2:1 VSWR. Dim: 4.59 to 5.25 ft.; 1.98 lbs. .... **\$299.99**

**ATBK-100 VHF/UHF Antenna Base Kit** - Not required, generally, unless operating the VHF or UHF bands with the ATAS-120 off-vehicle (on balcony railing, etc.). It restores the low-angle response for enhanced performance. Use with suggested base mount. .... **\$99.99**

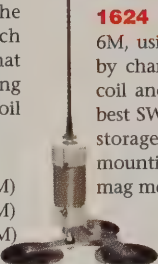


## Manually Tuned Screwdriver Antenna

Small and lightweight, supplied with a 4.5 ft. telescopic whip for mobile and a 10 ft. telescopic whip for greater efficiency stationary use. Quickly and easily tuned by sliding the aluminum cover over the coil. Copper beryllium finger stock completely surrounds the coil for solid connection as tuning is accomplished. Unused turns on the antenna are shorted out and completely shielded. Once tuned, a nylon tipped thumbscrew locks the cover in place to prevent movement. The 4.5 ft. whip collapses to 23 in., the 10 ft. whip to 19 in. Coil and whips can easily be packed into a backpack for hiking or camping. A standard 3/8" x 24 male mount in the base makes it easy to connect to an existing mount.

**1661** - 40-6M, 12 in.; 1 lb ..... **\$129.99**

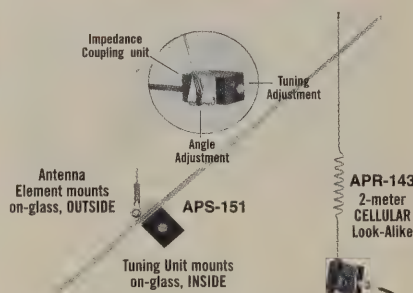
**1664** - 80-6M, 15 in.; 1.25 lbs ... **\$159.99**



**1624 HF Mini Bugcatcher** - Operate 40 thru 6M, using up to 300W P.E.P. Very simple tuning by changing the tap on the efficient air-wound coil and adjusting the supplied counterpoise for best SWR. The 5.5 ft. whip collapses to 2.5 ft. for storage or avoiding a garage door. Versatile mounting using a trunk lip, mirror, luggage or trimag mount (shown but not included)... **\$79.99**

**1899T Walkabout™ Multi-band Telescoping Antenna** - Designed specifically for the Yaesu FT-817 multi-mode HF/VHF/UHF portable transceiver or other QRP portables. Covers all bands (including WARC bands) from 80 to 6 meters. Power rating is 25 Watts. When fully extended it is just over 5 ft. long and is fitted with a BNC connector. Band changing is achieved by plugging a lead into the appropriate socket on the base coil, and fine tuning using the 10-section telescopic whip. For storage or travel, the whip unscrews from the base matching coil and measures only 8 in. collapsed ..... **\$69.99**

## ANTENNA SPECIALISTS "On-Glass" Mobile Antennas



No holes to cut! A small tuning unit attaches to glass inside the vehicle and couples capacitively through-the-glass to the stainless-steel black DURACOAT electrical 1/2-wave radiating element mounted on the outside. Both the APS-151 and the APR-143 cellular look-alike cover 144-174 MHz and are rated at 50W. Includes removable adhesive, 15 ft. of coaxial cable with PL-259.

**APS151** - 2m, 33 in. radiator ..... **\$69.99**

**APR143** - 2m, cellular look-alike, 23 in. .... **\$69.99**



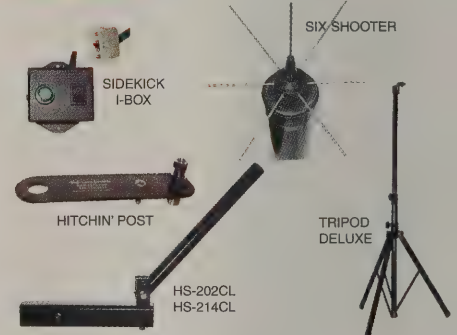
## High Sierra AntennAs

**PLATINUM PACK** Continuous coverage Motor Driven HF Antenna Package - The HS-1800/PRO antenna provides continuous tuning from 3.5-30 MHz with a typical VSWR of less than 1.5:1 across the entire tuning range. Removing the supplied 6 ft. whip changes the range to 6.9-60 MHz. The "best antenna" for general mobile use because of its light weight, high performance and ability to cover the entire HF spectrum. Great for stealthy operation at antenna-restricted QTHs, ARES/RACES and more! The complete package, ready to install, includes the HS-1800/PRO, black powder coat finish with black stainless-steel whip, black universal mounting bracket, quick-disconnect manual control box, RF filter assembly and installation kit (20 ft. of control cable, wire ties, (2) PL-259's, 3 ft. of ground strap and sealing material) .... **\$545**

**SIDEKICK** Continuous Coverage, Motor Driven HF Antenna - Similar in design to the HS-1800/PRO but, only 15 in. tall and comes with 3 ft. whip. Covers 3.5-60 MHz with a 200W power rating. Includes manual control box, RF filter assembly and 3/8-24 threaded base to use with a mounting bracket. **\$395**

**SIDEKICK I-BOX** Continuous Coverage, Motor Driven HF Antenna - Same as Sidekick, but includes a semi-automatic I-box controller for Icom transceivers: IC-703, 706, 718, 736, 746, 756, 765 and IC-775 with no external power needed. To tune, just press the switch on the control box. The transceiver automatically transmits with low power. When the SWR drops down, release the switch. Typical tune-up is less than 10 seconds ..... **\$445**

**I-BOX7000** I-BOX for Icom IC-7000 ..... **\$110**



### Motorized Antenna Accessories:

**HS-202CL Layback Adapter** - Fits a 2 in. trailer hitch receiver. Removing a pin allows the vertical rod to lay back at a 45° angle for access to trunk, rear hatch or tail gate. Black powder coat..... **\$130**

**HS-214CL Layback Adapter** - Same as 202CL, but fits 1.25 x 1.25 in. hitch receiver ..... **\$130**

**SIX SHOOTER Capacity Hat** - Shown mounted on the Sidekick. Improves performance ..... **\$70**

**STAKE HOLE MOUNT** - Used to install the Sidekick and other antennas into the stake hole on a pickup truck (bed sidewall). It has an SO-239 with a 3/8-24 thread for the antenna connection ..... **\$27**

**TRIPOD DELUXE** - A strong aluminum adjustable 6 ft. tripod, the perfect antenna mount for the next trip or emergency. Includes a stainless angle 3/8-24 thread antenna mount with SO-239 connector and (8) 10 ft. long wire radials ..... **\$130**

**HITCHIN' POST** - Mounts under a trailer hitch-ball. Made from thick stainless steel, black powder coated. Standard 3/8-24 thread antenna mount, SO-239 connector and ground screw ..... **\$50**

Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 W!

Browse Our Store On-Line at [www.aesham.com](http://www.aesham.com)

Screwdriver HF Antennas

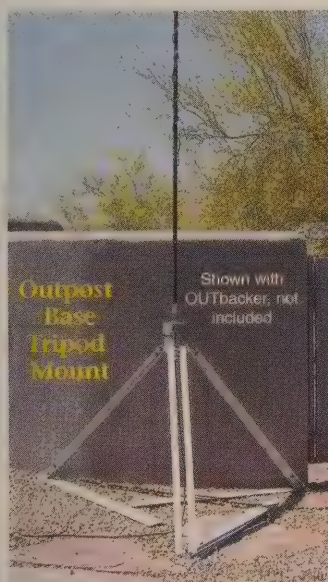




The Outbacker – provides efficient, multiband mobile performance in a rugged, lightweight, single whip design. Its sleek, low profile design allows use with standard 3/8-24 bases and trunk-lip mounts.

It features a fiberglass shaft, using a pre-tuned copper helical winding with clearly marked brass band taps at points along its length. A final coating of smooth epoxy resin and polyurethane, gives the OUTbacker a toughness and durability not found in other brands, while making a really good looking mobile installation.

To change bands, simply plug into the desired band tap and resume operating without changing whips, resonators, or retuning.



**The Outpost Base Tripod Mount** – A convenient way to use mobile antennas in BASE or PORTABLE applications. The large (36"x3") fold out feet form a large capacitor with the earth resulting in greatly improved efficiency. Makes an ideal condo, limited space antenna system that can provide incredible DX performance. Compact, fold-up design sets up quickly and collapses in seconds with no holes, no concrete required. Mount: 3/8" x 24 thread.

See Price Guide for listing of all OUTbackers and Accessories

**ICOM**

HF/50 MHz

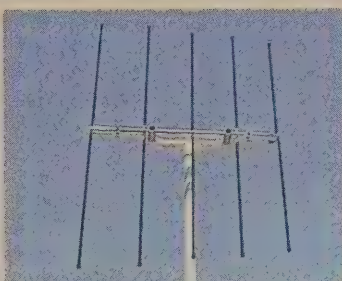
Five-Band Antenna

**AH-703** – Designed for convenient portable operation when using ICOM's IC-703 and IC-703PLUS. It covers the 7, 14, 21, 28 and 50 MHz bands with a 1/4-wave design and has a 20 Watt power capacity. The bands are covered by simply changing the supplied coils. The base terminates in a PL-259 connector which requires a PO-style mount. Dim: 4.6 ft. high; 12 oz..... **\$199.99**



**ELK  
ANTENNAS**

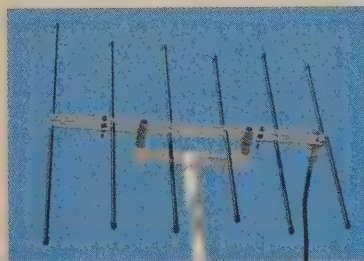
**Log Periodics** – Super wideband performance yielding great gain, high front-to-back ratio and low SWR without tuning. Designed with the latest software!



**2M/440-L5** 2M/440 MHz Log Periodic – Dual band operation without a duplexer, and only one feedline. Great for HT satellite contacts. Change polarity by twisting the mounting assembly to change from vertical to horizontal. Quick assembly and disassembly for portability. Color coded elements screw onto studs on the color-coded boom. Corrosion resistant, aluminum alloy, boom, black anodized aluminum elements and stainless hardware. 144-148 MHz; 5 elements; 6.8dbd gain / 430-450 MHz; 7dBd gain; 1:1 SWR; 20+dB F/B ratio; rated 200W (2M), 100W (440); 24 in. boom; 1.3 lbs..... **\$98.99**



**440-L8** 440 MHz Log Periodic – The latest model with increased gain and wide bandwidth. It's really great for 2M fox hunting, allowing radiation of the 3rd harmonic for a harder to find signal. Color coded boom and elements for easy, portable assembly and disassembly. Uses 6061-T6 aluminum alloy and stainless steel hardware provides strength and long life. 420-450 MHz; 8 elements; 8dB gain; 1:1 to 1.5:1 SWR; rated 200W; 24 in. boom; 12 oz..... **\$89.99**



**220-L6** 220 MHz Log periodic – All of the great Elk Antenna log-periodic features in a popular 220 MHz version. 222-225 MHz; 6 elements; 7.3 dB gain; 1:1 SWR; 28+ dB F/B ratio; 24 in. boom; 1.3 lbs..... **\$89.99**

**ELK BAG** Canvas Carrying Bag – For convenient transporting of all ELK antennas ... **\$24.99**

Silver-teflon® connectors on all models

**Arrow Antenna**

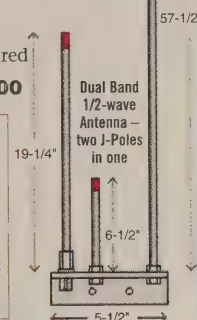
**146/440 MHz  
Dual Band J-Pole  
Antenna**

This a very Heavy Duty antenna. The elements are made from 3/8 in. solid round aluminum stock with a heavy duty angle mounting bracket and mounting hardware for masts up to 1-1/2 in. included.

- Covers 143-149 and 437-450 MHz
- Single SO-239 feed connector
- Omni-Directional radiation pattern
- Wide Bandwidth
- VSWR less than 1.5:1
- Gain over a 1/4-wave
- No Ground Plane required

**OSJ-146/440... \$39.00**

Mounts just about anywhere: in attic, on a roof vent pipe (up to 1-1/2"), on metal, wood or fiberglass poles, on fiberglass or plastic vehicles, trucks, boats.



**LEO Satellite Antenna**



**146/437-10** – KK5YY working thru a satellite using his handheld with only 500mW output, connected to an Arrow 146/437-10. The Arrow is designed to allow portable satellite operation using just an HT. It's engineered to provide maximum gain and efficiency within a small size and weight. The boom is 3/4 in. square aluminum stock, 37.5 in. long with a foam grip on the rear. The (3) VHF and (7) UHF elements are strong and lightweight aluminum arrow shafts, plastic tipped for safety. Gamma matched system with BNC connectors for each band..... **\$73**

**146/437-10BP** – Split boom model..... **\$79**

**10W DUPLEXER** – Allows you to hear the down link while you are transmitting. Installs inside the boom and includes connecting coax cables with BNC connector ..... **\$59**

**DUPLEXER SMA** – w/ SMA connector ..... **\$64**

**Goliath**

Tri-Magnet Mount

**336S** – Has (3) Super Strong 5-inch magnets bolted to a 1/4 in. thick triangular mount. SO-239 antenna mount. Comes with 17 ft. of coaxial cable and PL-259 connector.

**336T** – Same as 336S except has a 3/8" x 24 stud mount instead of an SO-239.

Each model ... **\$34.99**







**High Performance Yagis** – The standard, combining the latest computer optimization techniques and decades of design experience by Mike Staal, K6MYC. Big gain and clean patterns for long-haul, tropo and EME. The rugged, waterproof driven element module uses an efficient T-match with 4:1 balun and SNS connectors that are O-ring sealed to a CNC machined block with internal connections encapsulated in silicone gel and a type "N" connector with a beryllium copper, gold-plated center pin. Models for 6M, 2M, 222, 432/440 MHz, 1.2 GHz.



**Starter Series Yagis** – Low cost, medium performance antennas for your first venture into VHF and UHF bands. Tailored for compact size and portability. Great for field day, vacations, mountain topping, fox hunts, DXpeditions. Each antenna breaks down to no more than 40 in. long, making it a natural for trips. Perfect for deed restricted areas where windload and overall appearance must be kept to a minimum. Uses 3/16" dia. rod aluminum insulated elements, a driven element Gamma Match feed with no balun and a single heavy duty mounting cradle with stainless hardware. Models for 6M, 2M, 222 and 432 MHz.

**HO Loops** – At times when using highly directional VHF or UHF antennas there are signals you cannot hear off the sides and back. The addition of a horizontally polarized and omni-directional **HO-Loop** to your setup will enable you to be aware of those stations you may be missing. Great for round tables, nets and monitoring for band openings. A super mobile antenna, with contacts up to 200 miles not uncommon. Rugged tuning and 50Ω matching system; stacking kit/harness available. Typical gain is 4.0+ dBd, and power rated at 800W or 1.5kW when stacked. Models for 6M, 2M, 222 and 440 MHz.

**Eggbeaters** – Produces smooth omnidirectional Horizontal/RHC polarity at the horizon. Perfect for satellite or SSB modes. Models for 2M & 432 MHz. See the Price Guide and for more detailed information go to: [www.m2inc.com](http://www.m2inc.com)



The Phantom® – The low profile, whipless design doesn't look like a regular antenna so it attracts less attention. Requires NMO-style mount.

**TRABT-1420** VHF – Tunable 142-164 MHz, unity gain. Black, 3.3" tall x 1.5" dia. radome .... **\$59.99**

**TRAB-4303** UHF – Covers 430-450 MHz, 3 dB gain. Black 3.3"h x 3.5" dia. radome..... **\$29.99**

**BB-1443** VHF Wideband Antenna Base loaded 5/8-wave. Covers 144-174 MHz, 3dB gain, 49 in. tapered whip. Requires NMO mount. (Black) ... **\$39.99**

**CWB-1443** VHF 5/8-Wave Broadband Self Tuning 144-156 MHz, 3dB gain, 47" tapered whip. (Black) ..... **\$49.99**

**CWB-4405C** UHF Wideband Collinear – Self Tuning 440-470 MHz, 5dB gain, 32" tapered whip. Requires NMO mount. (Black) ..... **\$49.99**

**BB-1442N** Broadband, 5/8-Wave No Ground Plane – Base loaded, 144-174 MHz, 2.4dB, 49" tapered whip .... **\$39.99**

**BB-4303** UHF 5/8-Wave – Covers 430-450 MHz, 3dB gain, 11.8" straight whip. Requires NMO mount. (Black) ... **\$34.99**

**AB-FT** Broadband 1/4-Wave – Tunable 118-896 MHz, unity gain, requires NMO mount .... **\$16.99**

**AB-SCANC** Collinear Scanner Antenna – For 150/450/800 MHz receive only. Requires NMO mount. (Black) ..... **\$29.99**

**CB-144/440C** Collinear Dualband VHF/UHF Covers 144-148 & 440-450 MHz, 2/5dB, 36" whip. Rated 200W. Requires NMO mount. (Black) .. **\$49.99**

#### MOUNTS



**MB-8PST** NMO Permanent Brass Hole Mount (A) Quality brass alloy, silver-soldered ground lug. Mounts in 3/4" hole. Includes 17' of RG-58A/U coax with PL-259 connector. .... **\$16.99**

**TM-8PST** NMO Mini-Trunk Lid Mount (B) Chrome, includes 17' of coax with PL-259 ..... **\$26.99**

**GB-8PSTI** NMO Magnetic Mount (C) – Strong, 90 lbs. pull. Mylar sole prevents scratches. Includes 12' RG-58A/U with Teflon® PL-259 connector.. **\$34.99**

**LBMB-9034** Mirror Mount L-Bracket (D) – Strong aluminum, black. For 3/4" hole mounts... **\$10.99**

**VTPM** Plate Mount (E) – 1" thick, NMO... **\$19.99**

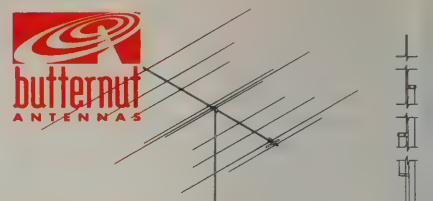
Gold-Anodized Welded Yagis Internally matched, wide band, no tuning. End-of-boom N-type connector, internal transmission line feeds the driven element.

**Y-1363** 3-Element VHF – Covers 136-150 MHz, 7.1 dBd, 17 dBd F/B. Rated for 500W. Mounts on mast up to 2.5" diameter..... **\$99.99**

**Y-4303** 3-Element UHF – Covers 430-450 MHz, 7.1 dBd gain, 17 dB F/B. Rated for 300W. Mounts on mast up to 2.5" diameter..... **\$99.99**

**Y-1365** 5-Element UHF – Covers 430-450 MHz, 9.2 dBd gain, 20 dB F/B. Rated for 300W. Mounts on mast up to 2.5" diameter ..... **\$129.99**

**Fiberglass Omnidirectional Base Antennas** – for 144-148 and 440-450 MHz. White fiberglass with gold anodized sleeve and cap and N-female connector. For models, see LAIRD in the Price Guide



#### YAGI

**SKYHAWK 3X10** Triband Yagi – A design breakthrough. 3-band, 10-element, 20/15/10M, rust free. **Drop Ship \$1149.99**

**HF-2V** 80/40 Vertical – Optimal output on 80 and 40m because the full length of 32 ft. is used on both bands..... **\$299.99**

#### VERTICALS

Take advantage of all HF bands from 80 to 6m with high efficiency - without losses through traps. Both antennas (HF-6V, HF-9V) are only 26 ft. high and can be mounted directly on the ground or elevated on a roof top. Additional accessories may be found in the Price Guide under Butternut.

**HF-6VX** 6-Band Vertical..... **\$389.99**

**HF-9VX** 9-Band Vertical..... **\$449.99**



**A-99** 10M Base Antenna with Twin Ring Adjust-A-Match Tuning – Voltage-fed, half wave variable, mutual transfer inductance tuned antenna. It's economical and easy to use! The SOLARCON sealed base unit is tuned with external inductance rings. Impedance remains constant over the tuning range. Simple Tuning! Raising the tuning rings raises the frequency and lowering the rings lowers the resonant frequency.

Rugged, three-piece, white fiberglass construction with triple-plated brass fittings. It's easy to assemble and install. The optional GPK-1 ground plane radial kit makes it perform even better!

Full 10 meter band coverage; 3 dBi gain; 2kW power limit; Low angle of radiation for DX; DC grounded; Mounts on 1.5 in. mast; Uses 52Ω coaxial cable with SO-239 connector. Overall length is 17 ft. 8 in..... **\$79.99**



**GPK-1** Groundplane Kit Use with the A-99 for 30% gain and lower angle of radiation. Collar and 4 fiberglass radials..... **\$59.99**

**FULL BODY CLIMBING HARNESSES**

TowerMate LE™

**FP-56222** – Two D-ring, 2.7 lbs., S-L.. **\$85.99**

**FP-56224** – Two D-ring, 2.8 lbs., L-XL. **\$85.99**

**FP-56422** – Four D-ring, 3.0 lbs., S-L.... **\$99.99**

**FP-56424** – Four D-ring, 3.2 lbs., L-XL. **\$99.99**

EagleTower LE™

**FP-66611** – Six D-ring, 5.1 lbs., S.... **\$246.99**

**FP-66612** – Six D-ring, 5.2 lbs., M..... **\$246.99**

**FP-66613** – Six D-ring, 5.3 lbs., L ..... **\$246.99**

**FP-66614** – Six D-ring, 5.4 lbs., XL.... **\$246.99**

All Glen Martin items are Drop Shipped.  
See the Price Guide for more Glen Martin products.



## Miracle Antenna



MIRACLE WHIP

DUCKER IL

## Miracle Whip

All Band, Rig Mounted Tunable Whip

For QRP (5W) or SWL rigs – a completely self-contained, all-band 57 inch telescoping whip antenna with integrated tuner for receiving and transmitting that mounts right on a radio's antenna connector. Continuous tune 0.6 to 500 MHz RX and continuous tune 3.5 to 450 MHz TX. The variable auto transformer design operates effectively without a counterpoise as the continuously variable nature permits finding a good match using whatever ground paths are available ..... **MIA Miracle Whip \$139.99**

## Miracle Ducker

Wideband for your Wideband Handheld

Transforms your rubber duck into an all-band HF/VHF/UHF transmitting and receiving antenna with up to 30dB of RX gain on HF. Your portable or base rig now can receive AM, the Ham bands, International Shortwave, CB, FM, Airband, VHF and more. And for more fun, you can still transmit thru with the same antenna at QRP levels. The built-in BNC connector, mounts directly onto the radio. **MIA Ducker IL \$139.99**

**MFJ**

**RUFFRIDER™  
Mobile  
Antennas**

(mounts shown are  
not included)



Quality construction using precision machined components. Rugged, designed to battle the elements.

Dual band 144/440 MHz mobiles have stacked stainless steel elements with high-Q phasing coils resulting in outstanding gain. Phased radiators flatten radiation patterns and concentrate power at the horizon.

All models are factory tuned for SWR less than 1.5:1 and have 50Ω impedance. Each comes w/SO-239 base, but also includes a FREE NMO adapter.

**1402 Junior** – 16.5 in., handles 100W. Unity gain on 2M, 3dB gain 440 MHz. No fold-over .. **\$34.99**

**1412 High Power** – Only 40 in. long but handles a full 200W. Great for high power mobile & amp. 3dB on 2M, 5.5dB on 440 MHz ..... **\$49.99**

**1422 High Gain** – 41.5 in. long giving you extra gain with little increase in height. Handles 150W. 3.2dB on 2M, 5.7dB on 440 MHz ..... **\$49.99**

**1432 Hyper Gain** – 62.5 in. long. 5dB gain on 2M, 7.6dB gain on 440 MHz. Handles 150W ... **\$69.99**

**1436 Triple Threat** – 59 inches long, stacked elements with high-Q phasing coils give a whopping 7.3dB gain on 440MHz, 4.5 dB on 2M and 2.15dB on 6 Meters. Handles 150W ..... **\$79.99**

## THE SMILEY ANTENNA CO.



### HAND TUNED ANTENNAS FOR HANDHELD RADIOS

Each Smiley antenna is individually tuned to resonance at the band center under normal operating conditions (no ground plane, no radials). They're manufactured from the finest heat-treated copper plated spring steel coils. Cold rubber compound is used for coil insulation with a neoprene heat-shrink coating applied for strength and endurance. All have BNC connectors.

**TS Thin Stick** – 1/4-wave telescoping dual band antenna for 144 and 220 MHz bands..... **\$16.99**

**SS-II Super Stick II (A)** – 2M, 5/8-wave, flexible base loaded telescoping antenna. 6-9db gain fully extended. Usable fully collapsed, or one section 1/4 wave. 54" extended, 10" collapsed..... **\$19.99**

**SS-II/COMBO Super Stick II Combo** – Same as above, but includes a 2m stubby duck ..... **\$29.99**

**5/8 SLD-2 5/8 Slim Duck (B)** – 2m, 5/8-wave, 7db gain, flexible base loaded ant. 12" long..... **\$19.99**

**5/8 SLD-2 COMBO 5/8 Slim Duck Combo** – As above, but includes a 2m stubby duck ..... **\$29.99**

**RD-2 Regular Duck (C)** – For 2m. Tuned ducks show a 3db gain over other rubber ducks because they are impedance matched for HTs..... **\$15.99**

**RDS-2 Stubby Duck (D)** – Tuned, for 2m **\$15.99**

**SS-III Super Stick III** – 220 MHz 5/8-wave, flexible base loaded telescoping antenna. 6-9 db gain extended; usable collapsed, or a one-section 1/4-wave. 36" extended, 8 3/4" collapsed..... **\$19.99**

**SS-III/COMBO Super Stick III/Combo** – As above, but includes a 220 MHz stubby duck ..... **\$29.99**

**5/8 SLD-220 5/8 Slim Duck (E)** – 220 MHz, 7db gain, flexible base loaded 9" antenna ..... **\$19.99**

**5/8 SLD-220 COM 5/8 Slim Duck Combo** Same as above, but includes a 220 MHz stubby duck antenna..... **\$29.99**

**RD-220 Reg. Duck (F)** – 220 MHz, tuned **\$15.99**

**RDS-220 Stubby Duck (G)** – As above ... **\$15.99**

**SS-IV Super Stick IV (H)** – 440 MHz 5/8-wave, flexible telescoping ant. 6-9db gain extended; usable collapsed. 18" extended, 5 3/4" collapsed ..... **\$19.99**

**SS-IV/COMBO Super Stick IV Combo** – Same as above, plus has 440 MHz stubby duck ..... **\$29.99**

**SL-440 Slimline (I)** – 440 MHz, 3/4-wv. flex **\$15.99**

**5/8 SLD-440 5/8 Slim Duck (J)** – 440 MHz, 7db gain, flexible base loaded 5" antenna ..... **\$19.99**

**5/8 SLD-440 COM 5/8 Slim Duck Combo** As above, plus has a 440 MHz stubby ..... **\$29.99**

**RDS-440 Stubby (K)** – 440 MHz, tuned. **\$15.99**

**RDMD-440 Mini Duck (L)** – As above.... **\$15.99**

**FLX 1/2 WAV-2M Flex-Coil (M)** – 2M, 1/2-wave, 7-9db gain, flexible base, 35" fully extended **\$25.99**

**270A (N)** – Telescoping 2m/220/440 antenna. 1/4-wave (2m); 5/8-wave (220 MHz); 5/8 & 1/4-wave (440 MHz). Also available with SMA. each **\$19.99**

**TAQ** – 1/4-wave whip antenna, specify for 2M, 220 or 440 MHz ..... each **\$10.99**

### HT RANGE EXTENDERS

**1714 Long Ranger™ 2M Halfwave BNC** – This end-fed 1/2-wave is hard to beat. It outperforms a 5/8 wave because it does not need a ground plane. At 40 in. extended, it's shorter, lighter, has more gain and places less stress on the antenna connector. When collapsed to 10.5 in., it performs equal to a regular rubber duck.... **\$16.99**

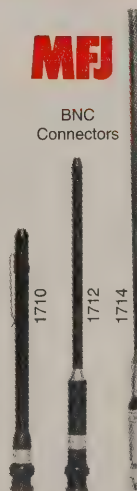
**1712 Dual Bander™ 2M/440 MHz BNC** – 1/4 wave for 2m and 5/8 wave with gain for 440 MHz. Dim: 7.25 in. collapsed, 19 in. extended ..... **\$14.99**

**1712S** – Same as 1712 w/SMA connector ..... **\$14.99**

**1710 Pocket Linear™ 3/8 Wave, 2M BNC** – Carry in your pocket like a ballpoint pen. When using your rubber duck, on the fringe & noisy, put on the Pocket Linear, extend to 24.5 & carry on your QSO. Only 5.25 in. collapsed. Pocket clip ..... **\$9.99**

**MFJ**

BNC  
Connectors



Midget Duck for  
2M/440 MHz

An amazing antenna for its size. Less than 1 inch tall, it's great for travelling and monitoring and doesn't get in the way. Also works well for signals at 1200 MHz. Order **1719** with BNC connector or **1719S** with SMA ..... each **\$19.99**

### Clip Window Mount for Handheld Antennas

When mobile you can get out better by detaching the antenna from your HT and installing it on this handy window clip mount. It holds the antenna securely on the glass outside of your car and dramatically improves both transmit and receive signals. Comes with 10 ft. of mini-coaxial cable. Order **310** with BNC connector or **310S** w/SMA ..... each **\$19.99**



More HT Antennas on Comet/Maldol, Diamond, Larsen and Premier pages



# CRANK IT UP!

## MA SERIES CRANK-UP TUBULAR TOWERS

The premier MA-Series towers are designed to be both safe and neighbor-friendly. The slender design gives a clean flagpole-like appearance while allowing antennas from 15.3 to 22 sq. ft. in 50mph winds, depending on the model.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
MA-40	40'/21'6"	2	242	3"sq./4.5"	3'x3'x4'6"	\$1299.99
MA-550*	55'/22'1"	3	435	3"sq./6"	3.5'x3.5'x5'	\$2019.99
MA-770*	71'/22'10"	4	645	3"sq./8"	5'x5'x5'6"	\$3329.99
MA-850*	85'/23'6"	5	943	3"sq./10"	5'x5'x6'	\$5159.99

\*Also available as tower/heavy-duty motor drive (positive pull down) package. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control. 770 and 850 require MAB or MARB series base.

## FREE STANDING "LOW-PROFILE" CRANK-UP LATTICE TOWERS

The compact TMM Series are designed to offer an alternative for clients in height restricted areas. These towers have a minimum retracted height of 11'4" to 12' (depending on rotor). Visual impact is reduced and antenna servicing is made easier. The TMM Series are light weight, freestanding, and allow up to 50 sq. ft. of antenna in 50mph winds.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
TMM-433SS	33'/11'4"	4	315	10"/18"	4'x4'x4'6"	\$1759.99
TMM-433HD*	33'/11'4"	4	400	12.5"/21.5"	4'x4'x5'	\$2119.99
TMM-541SS*	41'/12'	5	430	10"/21.625"	4'x4'x5'	\$2299.99

\*Will accept the MDP-750 motor drive, factory installed only.

## FREE STANDING CRANK-UP LATTICE TOWERS

The standard duty TX Series are as strong or stronger than most competitors' heavy-duty models. They have 21' sections with 4' overlap to provide extra height, as well as to help prevent binding in high winds. The TX Series comes complete with rotor plate and base hardware and require no guying. All bases will accept the TRX Series raising fixtures.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
TX-438	38'/21'6"	2	355	12.5"/15"	5'x5'x5'	\$1649.99
TX-455	55'/21'6"	3	670	12.5"/18"	5'x5'x6'	\$2269.99
TX-472*	72'/22'8"	4	1040	12.5"/21.625"	5'x5'x6'6"	\$3729.99
TX-489MDPL**	89'/23'4"	5	1800	12.5"/25.625"	5'x5'x8'	\$9729.99

\*Also available as a tower/heavy-duty motor drive (with positive pull down) package. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control. \*\*Comes with heavy-duty motor drive with dual level wind and positive pull down. Requires purchase of MCL-100 limit switch control or RMC-1000 remote control.

## FREE STANDING HEAVY-DUTY CRANK-UP LATTICE TOWERS

The HDX Series heavy-duty telescoping towers have up to 2-1/2 times more wind loading capacity than others (up to 70 sq. ft. at 50mph). This allows for large stacked arrays, while using commercial-type bases and anchor bolts. All T-bases can utilize the TRX Series raising fixtures, allowing the tower to hinge. None of the lattice style towers require guying.

Model	Height max./min.	Sections	Weight (in lbs.)	Section OD top/bottom	Base	Price
HDX-538	38'/21'6"	2	600	15"/18"	5'x5'x6'	\$1959.99
HDX-555	55'/21'6"	3	870	15"/21.625"	5'x5'x6'6"	\$3419.99
HDX-572MDPL*	72'/22'8"	4	1600	15"/25.625"	4'x4'x8'	\$8919.99
HDX-589MDPL*	89'/23'4"	5	2440	15"/30.625"	5'x5'x8'	\$11669.99
HDX-5106MDPL*	106'/24'8"	6	3805	15"/37.125"	5'x5'x9'	\$24529.99

\*Includes heavy-duty motor drive with dual level wind and positive pull down. Requires purchase of MCL-100 limit switch control (included with 589MDPL and 5106MDPL) or RMC-1000 remote control.



Headquarters  
1099 W. Ropes Ave.  
Woodlake, CA 93286  
(559) 564-6000

Second Location  
702 E. North St.  
Lincoln, KS 67455  
(785) 524-9966  
www.ustower.com

US Tower accessories listed in the Price Guide

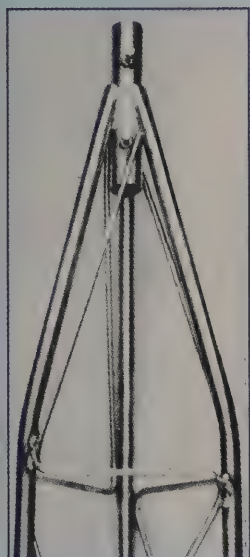
All towers are drop shipped directly from the factory. Additional freight charges apply. Ask for details.



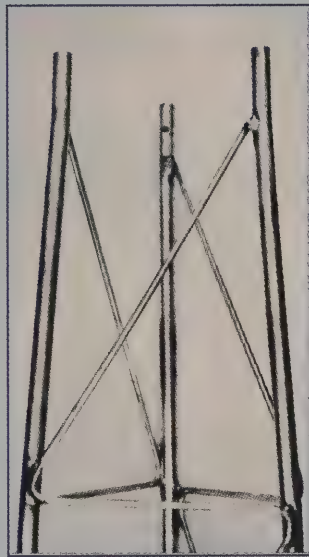
# UNIVERSAL TOWERS

ALUMINUM, FREESTANDING, SELF-SUPPORTING AT RATED LOAD

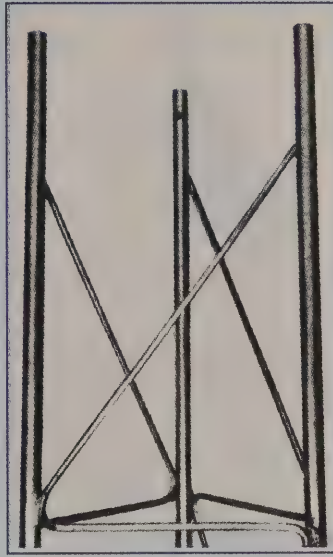
LIGHTWEIGHT • RUST FREE • EASY TO ASSEMBLE • RUGGED STRENGTH  
for AMATEUR RADIO • TV • FM • INDUSTRIAL • FIRE • POLICE • MARINE



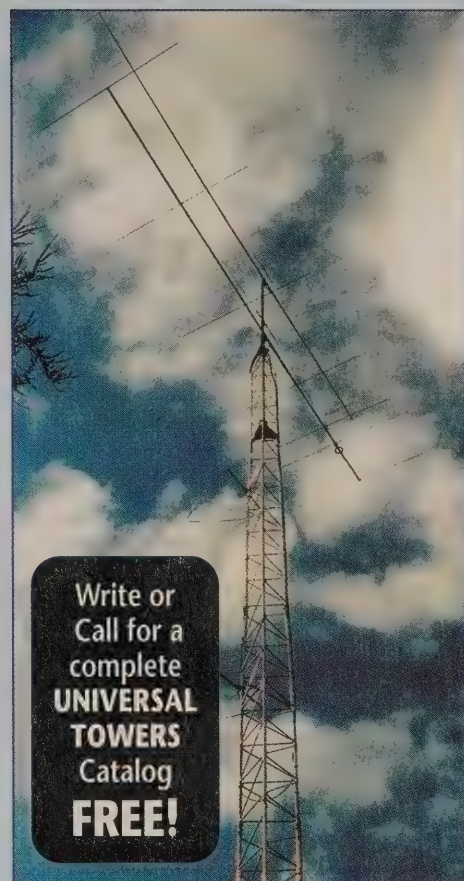
TOP SECTION



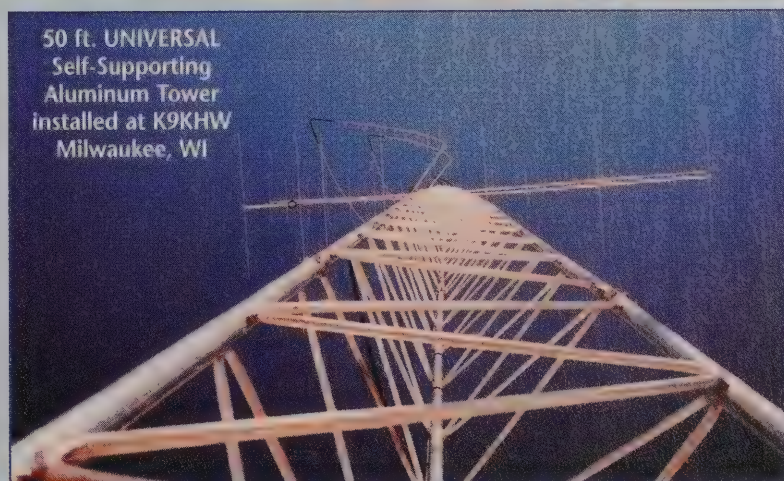
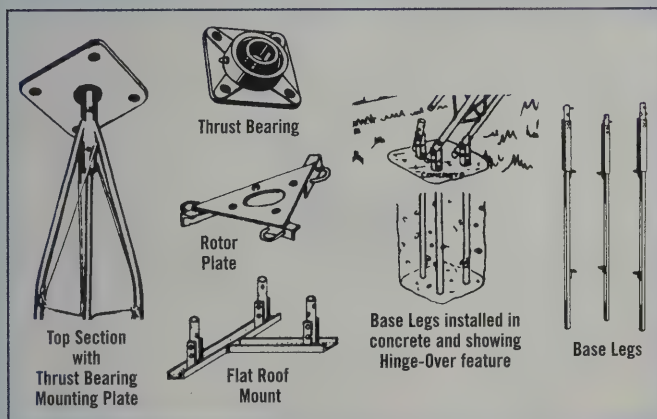
TAPER SECTION



STRAIGHT SECTION



Write or  
Call for a  
complete  
**UNIVERSAL  
TOWERS**  
Catalog  
**FREE!**



50 ft. UNIVERSAL  
Self-Supporting  
Aluminum Tower  
installed at K9KHW  
Milwaukee, WI

## SECTIONS

Universal Aluminum Tower sections are an equilateral triangular welded truss, 10 ft. in length and available 11, 14, 18, 22, 26 or 30 inches wide.

## CHOOSING THE PROPER TOWER

- (1) Determine the projected surface area of the antenna that you intend to mount. This figure is often in the literature that comes with the antenna. Otherwise: standard TV antennas are about 2 sq. ft. in area; 6/10 meter beams and large TV antennas are 5 sq. ft.; 20/40 meter beams are 9 sq. ft.; large 20/40 meter beams or multiple antenna arrays are 18 to 26 sq. ft. Also, when using a rotator add 1 sq. ft. plus 1 sq. ft. for the mast to whatever size antenna you intend to use.
- (2) Decide on the tower height that you want. Universal Towers are made in 10 foot sections to give you many possible sizes and the ability to add sections later.
- (3) Choose the tower model based on height and windload. The model number is merely the wind loading followed by the height. For example, if your antenna calculation resulted in a tower designed for 5 sq. ft. and you wish it to be 50 ft. high, the model you want is a **5-50**.

*See the Price Guide for Configurations and Prices.*

## No Guy Wires!

Self-Supporting at the Rated Load

## BEFORE BUYING A TOWER

Consider the advantages of -

## ALUMINUM

It's Strong, Lightweight, Rust Free and easy to assemble and erect.

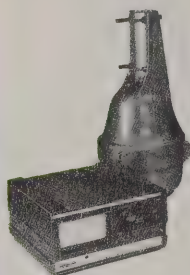
UNIVERSAL offers 10' sections or complete towers ranging from 30 to 100' with a choice of wind load ratings and accessories.

All towers are drop shipped direct from the factory. Shipment is FOB Mt. Clemens, MI via truck, COD for freight charges only. Freight charges will be collected upon delivery by the carrier.



# hy-gain ROTATORS

... the first choice of hams around the world!

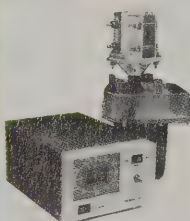


## The HAM-IV

is the most popular rotator in the world! It is designed for medium communications arrays of up to 15 sq. ft. wind load area. Low temperature grease permits normal operation down to -30° F. New alloy ring gear gives extra strength up to 100,000 PSI for maximum reliability. The indicator potentiometer leads have ferrite beads to reduce RF susceptibility. For convenience a Cinch® plug connector is used at the rotor plus an 8-pin plug at the control box. Dual 98 ball bearing race for load bearing strength and electric locking steel wedge brake prevents wind induced antenna movement. North or South center meter scale. Maximum mast size: 2.063 in. .... **\$539.99**

### Ham-IV Specifications

Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	7.5 square feet
Turning Power (in lbs.)	800
Brake Power (in lbs.)	5000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Dual race/98 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	2800 ft/lbs.



## The HDR-300A

is the best for king-sized antenna arrays up to 25 sq. ft. wind load. Machined steel output gear. Tough, hardened stainless steel output shaft with a long keyway for added reliability. North or South centered calibration, Ferrite beads are installed on the potentiometer wires to reduce RF susceptibility, Heavy-duty self-centering steel mast clamp and hardware. Digital heading display accurate to 1°. Mast size: 1.25"-3". **\$1349.99**

### HDR-300A Specifications

Wind Load capacity	25 square feet
Wind Load (w/mast adapter)	N/A
Turning Power (inch lbs.)	5000
Brake Power (inch lbs.)	7500
Brake Construction	Solenoid operated locking
Bearing Assembly	Bronze sleeve w/rollers
Mounting Hardware	Stainless steel bolts
Control Cable Conductors	7 (Belden 8448 or 9405)
Shipping Weight (lbs.)	55
Effective Moment (in tower)	5000 ft/lbs.

## The TAILTWISTER SERIES II



is designed for medium communications antenna arrays of up to 20 sq. ft. wind load area. Available with DCU-1 Pathfinder Digital control box (T-2XD) or standard Analog control box (T-2X). Low temperature grease, alloy ring gear, indicator potentiometer, ferrite beads on potentiometer wires, weatherproof AMP connectors plus 8-pin plug at the control box. Triple bearing race with 138 ball bearings for large load bearing strength, electric locking steel wedge brake, North or South center meter scale, low voltage control. Maximum mast size: 2.063 in. **T-2X** with analog control **\$619.99**  
**T-2XD** with DCU-1 control **\$1029.99**

### TAILTWISTER Specifications

Wind Load cap.(inside tower)	20 square feet
Wind Load (w/ mast adapter)	10 square feet
Turning Power (in lbs.)	1000
Brake Power (in lbs.)	9000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Triple race/138 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	28
Effective Moment (in tower)	3400 ft/lbs.

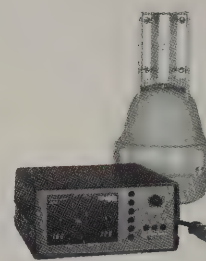


## The AR-40

is for large FM-TV and compact communication antenna arrays up to 3.0 sq. ft. wind load area. The dual 12 ball bearing race is exclusive in its class. Automatic position sensor never needs resetting. Fully automatic control, just dial and touch for any desired location. Solid state, low voltage control. Safe and silent operation. Maximum mast size: 2.063 in. Includes light duty lower mast support ..... **\$289.99**

### AR-40 Specifications

Wind Load cap.(inside tower)	3.0 square feet
Wind Load (w/mast adapter)	1.5 square feet
Turning Power (inch lbs.)	350
Brake Power (inch lbs.)	450
Brake Construction	Disc Brake
Ball Bearing Assembly	Dual race/12 bearings
Mounting Hardware	Plated clamps/steel bolts
Control Cable Conductors	5 (Belden 8448 or 9405)
Shipping Weight (lbs.)	14
Effective Moment (in tower)	300 ft/lbs.



## THE HAM-V

is designed for medium communications antenna arrays of up to 15 sq. ft. wind load area. Includes the innovative DCU-1 Pathfinder control unit. A strong 100,000 p.s.i. alloy ring gear and a new indicator potentiometer have been added for improved reliability. For convenience, a Cinch® connector is used at the rotor and an 8-pin plug at the control box. Ferrite beads reduce RFI. Powder coated finish. Max. mast size: 2.063 in. .... **\$899.99**

### HAM-V Specifications

Wind Load cap.(inside tower)	15 square feet
Wind Load (w/mast adapter)	7.5 square feet
Turning Power (in lbs.)	800
Brake Power (in lbs.)	5000
Brake Construction	Electric Wedge
Ball Bearing Assembly	Dual race/96 bearings
Mounting Hardware	Clamp plate/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	24
Effective Moment (in tower)	2800 foot/lbs.



## The CD-45-II

handles 8.5 sq. ft. mounted inside a tower, or 5 sq. ft. with mast adapter. Low temperature grease good to -30°F. Bell rotator design gives total weather protection, dual 48 ball bearing race gives proven support. Diecast ring gear stamped steel gear drive heavy duty, trouble free gear train, North or South center scale, lighted directional indicator, 8-pin plug on control unit, snap-action control switches, low voltage control, safe operation, takes masts up to 2.063". Includes light duty lower mast support ... **\$389.99**

### CD-45-II Specifications

Wind Load cap.(inside tower)	8.5 square feet
Wind Load (w/mast adapter)	5.0 square feet
Turning Power (inch lbs.)	600
Brake Power (inch lbs.)	800
Brake Construction	Disc Brake
Ball Bearing Assembly	Dual race/48 bearings
Mounting Hardware	plated clamps/steel U-bolts
Control Cable Conductors	8 (Belden 8448 or 9405)
Shipping Weight (lbs.)	22
Effective Moment (in tower)	1200 ft/lbs.

## Rotator Accessories

- MSHD** Heavy duty lower mast support for Ham-IV/V, T-2X/XD..... **\$99.99**  
**MSLD** Lower mast support for CD-45-II, AR-40..... **\$39.99**  
**TSP-1** Tower spacer plate..... **\$34.99**

## Belden Rotator Cable

- 8448** Standard duty, 8-wire See BELDEN in the Price Guide, page 5  
**9405** Heavy duty, 8-wire  
**8484** Standard duty, 4-wire

## The DCU-1 PATHFINDER

Digital Rotator Control unit compatible with CD-45-II, HAM-IV, T-2X

Automatic operation of brake and rotor with digital readout out of your beam heading, accurate to 1-degree, and 360-degree choice for center of rotation. Automatic 8-second brake delay reduces stopping torque stress. Six presets store favorite headings. RS-232 control, compatible with many logging and contest programs..... **\$699.99**





# YAESU

G-2800DXA

G-1000DXA

G-450A

G-5500

G-800DXA

G-800SA

## ROTATORS

Precision designed for a wide variety of antenna installations. Strong, weatherproof, die-cast aluminum enclosures; Permanently lubricated for years of smooth, quiet operation; 450° Rotation; Selectable north or south center; Quiet, gear reduction braking; 117/220 VAC; Fits most USA-made tower shelves.

**G-2800DXA** – The top-of-the line rotator for extra heavy-duty applications. 450° total rotation, with presets; 34 sq. ft. wind load; K-factor of 6870 ft. lbs.; 1808 ft. lbs. of stationary torque; Rotation torque: 57.8-181 ft. lbs., rotation speed and torque vary with the speed control setting; Maximum vertical load of 661 lbs.;  $\pm 1/2^\circ$  backlash; 1.875-2.5" mast size; 48-150 second 360° rotation; Optional GS-232B interface; Includes 131 ft. of 6-wire cable. Dim: 8" dia. x 13.375" h; 13.2 lbs. .... **\$1139.99**

**G-1000DXA** – High-performance for medium and heavy-duty applications. Total rotational range 450°, with presets; 23 sq. ft. wind load; K-factor of 2020 ft. lbs.; 433 ft. lbs. of stationary torque; Rotation torque: 43-79 ft. lbs., rotation speed and torque vary with speed setting; Max. vertical load: 440 lbs.;  $\pm 2^\circ$  backlash; 1.5-2.5 in. mast; 35-74 sec. 360° rotation; Optional GS-232B interface; Requires 6-wire cable. Dim: 7.5" dia. x 12.5" h; 7.7 lbs. .... **\$519.99**

**G-450A** – For HF/VHF light to medium-duty applications, without presets; 10 sq. ft. wind load; K-factor of 722 ft. lbs.; 217 ft. lbs. of stationary torque; Rotation torque: 43 ft. lbs.; Maximum vertical load of 220 lbs.; 1.5-2.5 in. mast size; 53 second 360° rotation; Requires 5-wire cable. Dim: 7.5" dia. x 12.5" h; 7 lbs. .... **\$259.99**

**G-5500** – Azimuth-Elevation rotator combo for satellite earth station and other space communication antennas. 11 sq. ft. wind load; 578 ft. lbs. K-factor; 145 ft. lbs. stationary torque; Rotation torque: 44 ft. lbs.; 440 lbs. max. vertical load;  $\pm 4\%$  backlash; 1.5-2.5 in. mast; 58 second 360° rotation; 67 sec. 180° elevation; Opt. GS-232B interface/C-1000 cable; 1.25-1.625 in. boom dia.; Requires 2 x 6-wire cable. Dim: 12.5" dia. x 7.5" h; 20 lbs. .... **\$629.99**

**G-550** – Elevation rotator, for satellite earth station and other space communication antennas; 12 sq. ft. wind load; K-factor of 578 ft. lbs.; 101 ft. lbs. of stationary torque; Rotation torque: 73 ft. lbs.; Max. vertical load of 440 lbs.;  $\pm 3\%$  backlash; 1.5-2.5 in. mast size; 67 second 180° elevation; 1.25-1.625 in. boom diameter; Requires 6-wire cable. Dim: 10.5" dia. x 7.5" h; 7.3 lbs. .... **\$299.99**

**G-800DXA** – High-performance for medium-duty applications. Total rotational range 450°, with presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft. lbs. of stationary torque; 43-79 ft. lbs. rotation torque (rotation speed/torque vary with the speed control setting); Max. vertical load of 440 lbs.;  $\pm 2^\circ$  backlash; 1.5-2.5 in. mast; 35-74sec. 360° rotation; Optional GS-232B interface; Requires 5-wire cable. 7.5" dia. x 12.5" h; 7.5 lbs. .... **\$429.99**

**G-800SA** – High performance for medium-duty applications. Total rotational range 450°, no presets; 17 sq. ft. wind load; K-factor of 1299 ft. lbs.; 288 ft. lbs. of stationary torque; 43-79 ft. lbs. rotation torque, rotation speed/torque vary with the speed control setting; Max. vertical load of 440 lbs.;  $\pm 2^\circ$  backlash; 1.5-2.5 in. mast size; 44 second 360° rotation; Quick-disconnect plug; Requires 5-wire cable. Dim: 7.5" dia. x 12.5" h; 7.5 lbs. .... **\$339.99**

## ACCESSORIES

**GC-038** – Mast clamp ..... **\$39.99**  
**GC-048** – Mast clamp for G-2800DXA ..... **49.99**  
**GS-050** – 50mm thrust bearing (1.25"-2") **39.99**  
**GS-065** – 65mm thrust bearing (1.5"-2.5") **54.99**  
**GS-232B** – Interface for DXA rotators.... **589.99**  
**C-1000** – GS-232B cable for SDX's/5500... **34.99**  
**GS-680U** – Universal, self adjust. bearing **109.99**  
**SEP KIT** Separation kit for G-5500 ..... **29.99**

**K-factor:** Multiply antenna turning radius x weight; add K-factors for each antenna

## M<sup>2</sup> SUPER DUTY Rotator

### OR-2800PDC Rotator

The most powerful and reliable. Rotates multiple HF antennas or large VHF or UHF arrays with ease. The control box provides manual features, plus heading preset, 10 programmable presets, programmable ramped start/stop with 1/2-degree target accuracy. **Features:** RS-232 port for computer control; Precision worm-gear drive, not reversible by mast torque; Non-slip, ductile iron mast clamps; Large drive plate for masts up to 3 in. dia.; Heat-treated steel gear train, hardened driveshaft; Prop-pitch style torque plate; Fits inside most popular towers and mates to standard towers and rotator plates; Motor-mounted digital pulse switch for accurate, closed loop control and heading display.

**Specifications:** 35 sq. ft. wind area; 1800 lbs. vertical load; 1.75-3.125 in. mast size; 55-270 second rotation speed; 28 to 42V DC motor 0.1/0.5 degree travel resolution; 110/ 220V AC, 50/60Hz input; Requires two 4-wire runs of rotor cable. Dim: 15.75" h total, 9.75" h rotor; 42 lbs. .... **\$1598.99**

## Channel Master®

### 9521A Light Duty Rotator



**Drive Unit:** Handles small to medium-sized VHF/UHF Ham antennas and TV antennas. One-piece cast aluminum housing; Heavy-duty rotator motor, three wire control; Precision-cut gear system; Built-in steel thrust bearing; Wind-tested brake pad; Durable powder-coated finish.

**Control Unit:** Gives direct access via channel number or compass heading. Compatible with most remote controls. Separate infrared remote controller; 69 channel programmable memory; Auto-synchronization for accuracy ..... **\$99.99**

## ECG®

### U-105 Light-duty Rotator

Long life, precision cut, hardened steel gears in a rugged, one-piece, cast aluminum housing. Large bearing surfaces and a reinforced mast for lateral load support. Ball bearings handle the vertical thrust load. Plenty of torque – easily handles the largest TV/FM and medium amateur VHF/UHF antennas.

Built to take high winds and weather extremes with a water tight, lubricated seal. Smooth, quiet operation and the automatic control accurately shows direction ..... **\$69.99**

**Control Unit:** 120 VAC input and 18 VAC output voltage via 3-wire cable to rotator. Dim: 7" w x 5.875" d x 2.375" h

**Rotator Unit:** 360° rotation in 70 seconds. Torque of 8 ft.-lbs.; 100 lb. max. vertical load; 1.125" to 2" O.D. support mast; 10 lbs.

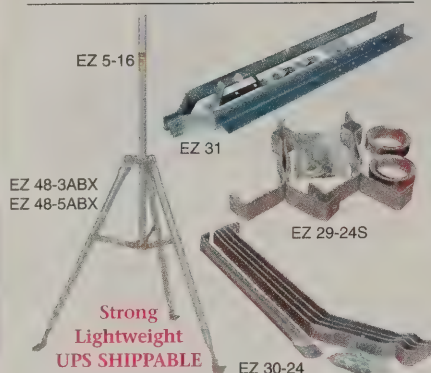
**U-106 Light-duty Rotator** – Similar to U-105 but with Presets and Infrared remote .. **\$89.99**

**TB-105 Thrust Bearing** – For U-105/106 providing extra support and strength. Ball bearing design also relieves stress from varying wind loads on the rotator drive and bearing. **\$18.99**



# EASYUP

"the Solution for Mounting  
Smaller Antennas"



Easy-Ups are heavy-duty and self-supporting; made out of 1-1/4 in. tubular steel with triple corrosion protection inside and out. Double embossed collars with six locking screws hold masts up to 1-3/4 in. Legs extend to any rafter spacing. Completely assembled and includes a pitch pad kit and lag screws.

**EZ 48-3ABX** - 3 ft. high, 8.5 lbs..... **\$39.99**

**EZ 48-5ABX** - 5 ft. high, 12 lbs..... **\$59.99**

**EZ 5-16** - 5 ft. 16 gauge steel mast\*... **\$12.99**

\*Store Pick-up only

**EZ 29-24S** HD Double-strap Chimney Mount Includes two "Y" type mounting brackets and 24 ft. of stainless steel strap ..... **\$22.99**

**EZ 30-24** - Deluxe wall mount with third support leg ..... **\$29.99**

**EZ 31** - H.D adjustable eave mount.... **\$29.99**

## VECTRONICS



**VC-300M** Mobile Tuner (top) - Compact, lightweight for mobile or base. Tunes mobile whips, verticals, dipoles, inverted Vs, beams - anything fed by coaxial cable. Covers 1.8-30 MHz at 300W continuous power. The dual-movement Cross-Needle meter monitors RF power output and SWR.

Dim: 7.25" w x 3.5" h x 8.75" d; 2.5 lbs ..... **\$119.99**

**VC-300DLP** (middle) - Matches any antenna. Full 1.8-30 MHz coverage and rated 300W PEP, 200W continuous power (150W on 1.8 MHz); Continuous rotation capacitors and 12-position switched inductor; Peak reading backlit Cross-Needle Meter; Built-in 8-position antenna switch and dummy load.

Dim: 10.25" w x 9.5" d x 3.5" h; 3.4 lbs ..... **\$159.99**

**HFT-1500** (bottom) - Matches any antenna. Full 1.8 to 30 MHz coverage and rated 2KW PEP, 1KW continuous. Three continuously variable components: two 4.5kV capacitors and a crank driven roller inductor with digital turns counter; Lighted Cross-Needle SWR/Wattmeter and 20-segment Digital Bargraph; Built-in 6-position antenna switch and 4:1 balun.

Dim: 12-1/2" w x 5-1/2" h x 12" d; 10 lbs ..... **\$429.99**

Stop tuning, Start talking!

# SGC

## SMARTTUNER® Automatic Antenna Couplers

SGC Smarttuners™ Deliver greater impedance matching, more tuning steps and more antenna choices than any other antenna coupler on the market. Get frequency agility and precision tuning. They are independently intelligent, matching ANY HF transceiver and ANY antenna. Smarttuners are microprocessor controlled; analyzing the conditions of your antenna and automatically adjusting for the best match. They also remember each match, cutting retuning time to under 10 milliseconds when changing frequencies. Smarttuners are available for power levels from 1.5 to 500 Watts and frequency ranges from 1.8 to 60 MHz. They provide all purpose tuning ideal for base, mobile, portable, marine or aviation. Any budget, any installation.

**54-14** SG-230 Original Smarttuner™ - 1.8-30 MHz; 200W. 16.2"l x 12.2" w x 3.2" h; 8 lbs..... **\$499.99**

**54-15** SG-235 High Power - 1.8 to 30 MHz; 500W; 16.2"l x 12.2" w x 3.2" h; 8 lbs ..... **\$1079.99**

**54-18** SG-237 General Purpose Smarttuner™ - 1.8 to 60 MHz; 100W; 9"l x 7" w x 1.5" h; 2 lbs **\$299.99**

**54-22** SG-239 Budget Smarttuner™ - 1.8 to 30 MHz; 200W; 7.5"l x 6" w x 1.9" h; 2 lbs .... **\$195.99**



**54-25** MAC-200 Master Antenna Controller Select the right antenna, for the right band, at the right time with the MAC-200. The Master Antenna Controller operates as your base station control center, eliminating complicated switching and tuning. With two built-in computers, the MAC-200 can select and tune up to 5 antennas automatically, quickly and accurately. Built-in memories fine tune to minimum SWR

with any balanced or unbalanced antenna. It instantly recalls settings from memory, allowing retuning in less than 10 milliseconds. Monitor your power and SWR with convenient meters on the front panel. Using SGC's well-known Smarttuner™ technology, the MAC-200 is the perfect choice for anyone using multiple antennas in a base station system. 1.8-60 MHz; 1.5-200W; 168 memories; Pi configuration; 230mA average current; <2 second random set time. Dim 8.5"l x 6.5" w x 3" h; 5 lbs ..... **\$265.99**

## MFJ ANTENNA TUNERS



**9982** - Continuous Carrier™ Antenna Tuner - Handles 2500 Watts continuous output on all modes and all HF bands 1.8 to 30 MHz into most unbalanced antennas. Features: Wide matching range; 6-position antenna switch; New 4-core balun; Balanced line feed-thru Insulator; 1500W air-cooled Dummy load; True peak and average lighted Cross-Needle SWR/Wattmeter; 6:1 reduction drives with detailed logging scales; 3-digit turns counter; Extra large knobs and fast tune crank. Uses a roller inductor edge wound from thick .06-inch silver-plated solid copper strap with dual silver-plated compression wheels. The high-current, 1000 pF and 500 pF air variable capacitors give very high efficiency on 160/80M and extremely wide matching range on 10/12/15M at 2500 Watts. Dim: 13.75" w x 7" h x 16" d; 15 lbs ..... **\$649.99**

**998** Intellituner™ - Covers 1.8 to 30 MHz, rated at 1500W SSB/CW. Ultra-fast automatic tuning matches impedance from 12 to 1600Ω using MFJ's exclusive IntelliTune™, AdaptiveSearch™ and InstantRecall™ algorithms, and over 20,000 VirtualAntenna™ memories. Key your transmitter and InstantRecall™ determines whether that frequency has been used before. If so, tuning is instantaneous. If not, an algorithm measures the impedance, selects the necessary components, and then fine-tunes the SWR. If the antenna impedance is outside the tuner's measurement range, Adaptive Search™ measures the frequency and determines relevant component values for fast tuning. MFJ's Amplifier Bypass Control™ (requires interface cable), provides safe tuning. On initiation, any in-line amplifier is bypassed. Next, a low-power CW tuning carrier from your transceiver is keyed. When tuning is complete, your transceiver reverts to its prior power and mode, and re-enables the amplifier. If a match better than a pre-set amplifier SWR trip point cannot be found, the amplifier stays bypassed. A Cross-Needle SWR/Wattmeter displays 300/60W or 3000/600W forward and reflected full-scale power ranges. A two-line, 16-character backlit LCD meter displays SWR, forward/reflected power, frequency, antenna selected, an autoranging bargraph power indication, and the final matching inductor and capacitor values. A memory system provides four antenna selections for each of the two switchable rear panel antenna connectors. A rear binding post for end-fed long wire antennas, balanced line antennas require an external 1.5kW 4:1 balun (MFJ-912). Requires 10-15VDC @ 1.3 amps. Dim: 13" w x 4" h x 15" d; 9 lbs..... **\$649.99**



# **MFJ ANTENNA TUNERS**



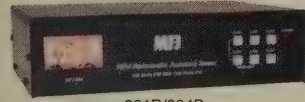
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989D



993B

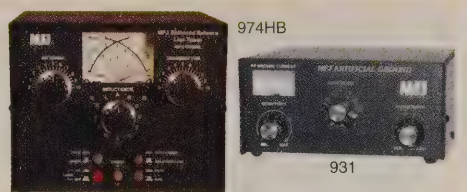


991B/994B

All MFJ products come with a **No Matter What™** One-year Limited Warranty. Not including kits, books or software.

**MFJ...**  
the World Leader in  
Amateur Radio Accessories

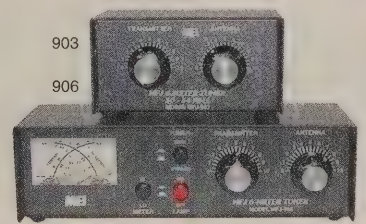
- 902 Tiny Travel Tuner** – Only 4.5" w x 2.25" h x 3" d, but rated for 150W. Tunes nearly any coax-fed or random length wire antenna for 80-10M. Perfect for "take along" rigs like IC-706MKII-GT, FT-100D, TS-50S, QRP rigs and others with built-in SWR meter ..... **\$89.99**
- 945E Mobile Tuner** – Covers 1.8–30 MHz plus 6M and rated at 300W PEP. Matches coaxial cable only. Extends mobile antenna bandwidth and eliminates having to stop and adjust the whip length when making frequency changes. Lighted cross-needle SWR bridge and power meter with 50/300 & 5/30W ranges. Dim: 8" w x 2" h x 6" d. **\$109.99**
- 941E Versa Tuner II** – Covers 1.8–30 MHz and rated at 300W PEP. *Matches everything!* – coaxial fed dipoles, vees, whips, verticals, beams, random wires, balanced lines. Built-in 4:1 balun. Lighted cross-needle SWR/power meter with 300/50W and 30/5W ranges. 8-position antenna selector for 2 coax lines, random wire or balanced line or an optional ext. dummy load. Dim: 10.625" w x 2.875" h x 7" d **\$119.99**
- 934 Antenna Tuner/Artificial Ground** – Makes a random wire an effective antenna. Combines best features of 941E and 931 into one. Full-featured 1.8–30 MHz, 300W tuner with cross-needle meter and ground matching knob that lets you switch in inductance to bring an attached random length wire to a low impedance current point, forming an artificial ground. Dim: 10.625" w x 3.5" h x 7" d ..... **\$189.99**
- 948** – All the features of the 941E except it has a larger lighted peak reading cross-needle SWR/power meter ..... **\$139.99**
- 949E Deluxe Versa Tuner II** – Same power, tuning and switching capability as the 941E with a larger, lighted peak or average reading cross-needle SWR/wattmeter. *PreTune™* allows off-air tune-up into a built-in dummy load. Dim: 10.625" w x 2.875" h x 7" d ..... **\$159.99**
- 969 Deluxe Versa Tuner II** – Covers 160–6M and rated at 300W. Features a roller inductor coil with a spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 30/300W ranges. Tunes coaxial cable, random wire or balanced feedline, has a built-in 4:1 balun. QRM-Free *PreTune™* allows off-air tune-up into a built-in 300W dummy load. Convenient 8-position antenna selector switch. Dim: 10.5" w x 3.875" h x 9.5" d ..... **\$189.99**
- 962D Versa Tuner III** – Covers 1.8–30 MHz and rated at 1.5KW PEP. Matches coaxial fed antennas, random or balanced line. Has built-in 4:1 balun and roller inductor. Lighted peak/average cross-needle SWR/wattmeter with 200/2000W ranges. 6-position selector for 2 coax lines (direct or thru). Dim: 10.5" w x 3.9" h x 15" d ..... **\$259.99**
- 986 Differential-T Tuner™** – Covers 1.8–30 MHz, rated at 3KW PEP. Uses a broadband T-network with roller inductor and differential capacitor. Tunes most antennas using only two knobs. Lighted peak or average reading cross-needle SWR/wattmeter with 200/50W and 2000/500W ranges. Inductor spinner knob, 3-digit turns counter, 6-position antenna selector, external dummy load switch, 4:1 balun. Dim: 10.75" w x 4.5" h x 15" d ..... **\$309.99**
- 989D Versa Tuner V** – Covers 1.8–30 MHz, rated at 1.5KW PEP with heavy-duty components. Matches nearly every type of antenna. Roller inductor with spinner knob and 3-digit turns counter. Lighted peak/average reading cross-needle SWR/wattmeter with 200/2000W ranges. Built-in 300W dummy load, heavy-duty 4:1 balun and 6-position antenna selector switch. Dim: 10.75" w x 4.5" h x 15" d. **\$329.99**
- 993B IntelliTuner™ 300W Auto Tuner** – Measures, calculates, then automatically tunes most balanced and unbalanced antennas. Cross-needle meter shows forward and reflected power and SWR. Digital LCD shows antenna selection, frequency, and more. 20,000 tuning memories for ultra-fast operation. Manual tuning possible without transmit. Includes 4:1 current balun. Matches 6 to 3200 ohms @ 150W CW/SSB (or 6 to 1600 ohms @ 300W). Audible SWR indicator; two-position antenna switch. Dim: 10" w x 2.75" h x 9" d ..... **\$249.99**
- 991B IntelliTuner™ 150W Auto Tuner** – Similar to 993B, rated 150W SSB/100W CW. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 6 to 3200 ohms ..... **\$209.99**
- 994B IntelliTuner™ 600W Auto Tuner** – Rated 600W SSB or 300W CW. 10,000 memories. No digital LCD, audible SWR indicator, antenna switch or 4:1 current balun. Matches 12 to 800 ohms. Low power tuning with any external amp bypassed ..... **\$339.99**



974HB

931

- 974HB Balanced Line Tuner** – Matches transceivers to virtually any balanced-line fed antenna. Illuminated Cross-needle meter shows both peak and average forward and reflected power, and SWR. Matching Range: 12–2000 ohms from 1.8–54 MHz. Power: 300W SSB PEP, 150W CW. Features a fully balanced wide range T-Network using four gear driven 1000V air variable capacitors and a high-Q air wound tapped inductor for 80–10 meters with separate inductors for 6 and 160 meters. A 1:1 current balun is incorporated in the low impedance input side to convert the balanced T-Network to unbalanced. Rear connectors for coaxial and single or two wire feedlines. Dim: 7.5" w x 6" h x 8" d .... **\$189.99**
- 974B Balanced Line Antenna Tuner** – Same as 974HB but 3.5–54 MHz (no 1.8 MHz) .... **\$169.99**
- 931 Artificial Ground** – Establishes a proper ground when used with random length wire antennas. It resonates an additional length of wire to act as a tuned counterpoise. Easier tuning, improved efficiency and radiation pattern, and reduced TVI/RFI. Covers 1.8-30 MHz and handles 100W. Dim: 7.5" w x 3.5" h x 7" d. Not for coax fed antennas ... **\$99.99**



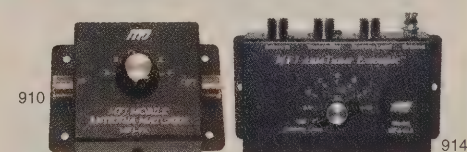
903

906

- 906 6 Meter Antenna Tuner/Meter** – Low SWR with almost any 50-60 MHz coax fed antenna. Lighted Cross-Needle SWR/Wattmeter shows SWR, forward, reflected power on 300/60 and 30/6W ranges. Handles 100W CW, 200W SSB PEP. Built-in bypass switch. Dim: 8" w x 2.5" h x 3" d ..... **\$89.99**
- 903 6 Meter Antenna Tuner** – Similar to 906. Less meter and bypass switch ..... **\$59.99**



- 921 144/220 MHz Antenna Tuner/Meter** – Dual band VHF tuner covers 2M/220MHz and matches a coax fed antennas over a wide range of impedances. Lighted SWR/Wattmeter measures SWR and power in two ranges; 300 or 30W. Rated at 200W. Dim: 8" w x 2.5" h x 3" d ..... **\$79.99**
- 924 440 MHz Antenna Tuner/Meter** – Similar to 921 but 440 MHz band only ..... **\$79.99**



910

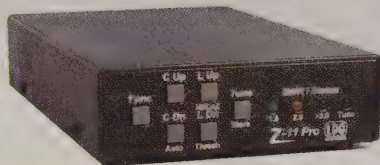
914

- 910 Mobile Antenna Matcher** – Get more power into your HF antenna. Matches HF mobile antennas 80-10M. Dim: 2.5" w x 2.5" h x 1.5" d ... **\$24.99**
- 914 Auto Tuner Extender** – Transforms your antenna impedance by as much as 10 times! Puts any antenna into the range of your automatic or manual tuner. Covers 160-10 Meters, handles 300W, has bypass position ..... **\$69.99**





## Automatic Antenna Tuners



**Z-11Pro** Automatic Antenna Tuner  
*The Return of a Legend!*

The original portable Z-11 was one of LDG's most popular tuners, accompanying adventurous hams to their backyards or to the ends of the earth. Now meet the Z-11Pro, everything you always wanted in a small, portable tuner designed from the ground up for battery operation.

Only 5 x 7.7 x 1.5 in., and weighing only 1.5 pounds, it handles 0.1 to 125 watts, making it ideal for both QRP and standard 100 watt transceivers from 160 - 6 meters.

With 8,000 memories in LDG's exclusive "3-D Memory" array, the Z-11Pro uses LDG's state-of-the-art processor-controlled Switched-L tuning network. It will match dipoles, verticals, inverted-Vs or virtually any coax-fed antenna. With an optional LDG balun, it will also match long wires or antennas fed with ladder-line ..... **\$179.99**



**AT-200Pro** Automatic Antenna Tuner  
*The first auto tuner specifically designed for today's 200W Class transceivers.*

The AT-200Pro features LDG's new "3-D memory system" allowing up to eight antenna settings to be stored for each frequency. Handles up to 250W SSB or CW on 1.8 to 30 MHz, and 100W on 6M.

Rugged and easy-to-read LED bar graphs show power and SWR, and a function key on the front panel allows you to access data such as mode and status. Dim: 8.5" w x 2.0" h x 6" d; 6 lbs .... **\$229.99**



**AT-100Pro** Automatic Antenna Tuner  
*An Automatic Tuner Evolution!*

This desktop tuner covers all frequencies from 1.8 to 54 MHz (including 6 meters), and will automatically match your antenna in no time. It features a two-position antenna switch, allowing you to switch instantly between two antennas. The AT-100Pro requires just 1W for full operation, but will handle up to 125W. The AT-100Pro includes over 2,000 memories for each antenna, automatically storing the tuning configurations for each frequency and band as you use them.

Dim: 7.5" w x 5.5" h x 2.0" d; 1.5 lbs ..... **\$199.99**

# LDG

## ELECTRONICS



**AT-200PC** Automatic Antenna Tuner  
*The First automatic Tuner Designed Specifically for PC Rig Control*

Now you can have a state-of-the art high performance automatic tuner and still run your whole station right from your keyboard and mouse!

LDG's AT-200PC is a special version of the popular AT-200Pro, designed for PC control. All of its functions are controlled entirely by a program running on your PC. The tuner itself can be installed out of the way, on the floor or even in another room, interfacing with your PC via serial or USB cable. Dim: 8.5" w x 2.0" h x 6" d; 6 lbs ..... **\$239.99**



*The Hottest Radio in the Industry!*  
*Now with it's Own LDG Autotuner!*

**AT-7000** – the ideal tuner for the IC-7000 and other ICOM Radios. It covers all frequencies from 1.8-54 MHz (including 6 meters), and will automatically match your antenna in a flash.

Requires just 0.1W for operation, but will handle up to 125W (100W on 6 meters), making it suitable for everything from QRP (IC-703PLUS) to a typical 100W ICOM transceiver.

Tune with the AT-7000 or use your radio. Includes over 2,000 memories, uses latching relays, tuning range is 4-800Ω, powered by your radio. Includes ICOM interface cable. Note: The IC-7000 shown on top of the AT-7000 is not included. Dim: 16.5" w x 1.5" h x 6.5" d; 1.5 lbs ..... **\$169.99**



**AT-1000Pro** Automatic Antenna Tuner  
*Just key and it Tunes!*

Building on the success its flagship AT-1000, LDG Electronics has refined and expanded its 1KW tuner. The new AT-1000Pro has an Auto mode that will automatically start a tuning cycle when the SWR exceeds a preset limit. There are provisions for two antennas and for each antenna there are 2,000 memories that store tuning parameters for almost instantaneous tuning when you transmit on or near a frequency you've used before. *Just key and it tunes!*

- Continuous coverage: 1.8 to 54 MHz.
- Power rating HF (1.8-30 MHz): 1000W SSB, 750W CW, 500W Digital (RTTY, Packet, etc.); 6 meters: 250W any mode.
- Operates at any power level between 5-1,000W peak RF input. Relay protector software prevents tuning at greater than 125W (75W @ 3:1 SWR).
- Cross-Needle SWR/Wattmeter with selectable 100W/1,000W ranges • Soft touch buttons
- Tuning time .01-8 seconds, or under 0.2 seconds when operated near a frequency with stored parameters.
- Tunes just about any antenna between 6 to 1000Ω (approximately 10:1 SWR).
- With 6 ft. power and ICOM/YAESU interface cables. (Requires user supplied 11-15V DC @ 1A). Dim: 19.5" w x 3.5" h x 13" d; 5.2 lbs ..... **\$549.99**



**Z-100** Automatic Antenna Tuner  
*Small, Lightweight, Low Cost Automatic Antenna Tuner!*

Designed from the ground up to provide the 100W power handling you asked for in a small, lightweight package, perfect for portable as well as sitting on your desk in the shack!

The Z-100 will tune with 0.1 to 125W (50W on 6 meters), making it an excellent choice for almost any radio or operating style. Backpackers and QRP operators will appreciate the latching relays. Power can be removed from the tuner once you have tuned. Additionally, when the tuner is not tuning, it draws nearly zero amps.

Additionally, the Z-100 features 200 fast memories which will decrease tuning time up to 95%!  
Dim: 5.5" w x 1.5" h x 5.25" d; 14 oz ..... **\$149.99**

**Includes All Cables  
Ready to Go!**



At LDG Electronics we have always been the innovators in the automatic tuner industry. We built the first desktop switched-L tuner, the first automatic tuner for QRP radios, the first automatic tuner with remote control head, and the first automatic tuner with 3-D memories.

**We were the first manufacturer with a two year warranty on all of our products.**

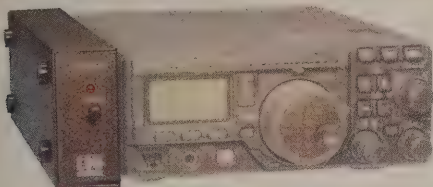
**We now include all of the necessary interface cables with every tuner we sell. No more getting ready to use your tuner and not having the right interface – everything you need is in the box!**

**No Questions Asked! – Every LDG product comes with our industry leading two-year Warranty. Just contact us to let us know your problem and we will repair or replace the product – No Questions Asked!**



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## Accessories



**AT-897 Automatic Antenna Tuner**  
*Added Versatility!*

If you own a Yaesu FT-897 and want a broad range automatic antenna tuner, look no further! The AT-897 mounts on the side of your FT-897 just like the original equipment. We even added the ability to mount the "feet" on the side of the tuner so when you are transporting your rig by the handle, you can safely set it down without scratching the case. The AT-897 takes power directly from the CAT port of the FT-897 and provides a second CAT port on the back of the tuner so if you are using another CAT device, hooking it up couldn't be easier.

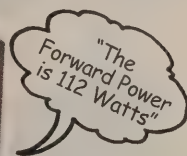
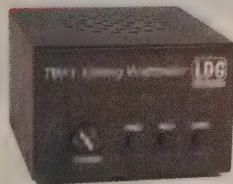
Dim: 1.5" w x 3.25" h x 11.5" d; 2 lbs ..... **\$199.99**



**RBA Baluns** - Allows you to connect long wires and antennas fed with ladder line to your LDG tuner. Two versions are available: The RBA-4:1 provides a 4:1 impedance transformation while the RBA-1:1 has a 52 ohm input and output. Rated at 200W. Dim: 2.5" w x 5" h x 1.25" d.

**RBA-1:1** Remote 1:1 Balun ..... **\$30.99**

**RBA-4:1** Remote 4:1 Balun ..... **\$30.99**



**The "Talking Watt Meter"**  
*Ideal for the Vision-impaired!*

**TW-1 Talking Wattmeter** - Covers 1.8-54 MHz and rated for 2000W PEP. At the press of a button, the TW-1 announces the Forward Power, Reverse Power or SWR levels using a digitally recorded voice in English, Spanish or German. Includes Tone Modes; one for SWR tuning, and one for Power tuning which makes it simple to tune an external tuner or amplifier by listening to the pitch change of a constant tone. Built-in speaker. Dual rear mounted SO-239 connectors. Requires 12V DC @ 200 mA. Dim: 4.5" w x 3" h x 5" d; 1 lb ..... **\$149.99**

**TW-2 UHF/VHF Talking Wattmeter** - Same as TW-1, but covers 6M, 2M and 440 MHz bands and rated for 250W PEP ..... **\$149.99**



**MULTI-DC 12VDC Distribution Box**  
*Solves your Power Problems!*

One input cable, and six output cables, each 3 ft. long distribute up to a total of 3 Amps of DC power to your LDG products. Six outputs, organized in three groups of two. Pairs are regulated to 12VDC, thermal protected and short-limited. A short circuit shuts down the regulator and turns off just that output. Dim: 6.5" w x 2.5" h x 2.5" d; 1 lbs ..... **\$49.99**

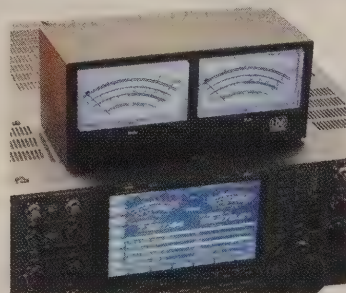


**FT-METER Multi-Function Meter for**  
**Yaesu's FT-857 & FT-897**  
*New, Improved!*

Yaesu's FT-857 and FT-897 are wonders of compactness. These do-anything, go-anywhere transceivers are being used more and more and users really appreciate LDG's extra metering capability.

The new FT-Meter presents a highly readable 2.5 inch meter face with calibrated scales for Signal strength and Discriminator reading on receive, and Power output, SWR, Modulation, ALC action and Supply voltage on transmit. LED back-illuminated in cool, high-visibility blue, easily visible from anywhere on your desk or dash. For illumination it requires an external 12V DC source. On the back it has an on/off switch for the light and calibration and brightness adjustments. Fully assembled and ready to plug into the radio.

Dim: 3.5" w x 3" h x 2" d; 0.5 lbs ..... **\$49.99**



**DM-7800 Dual Meter System**  
**for ICOM's IC-7800**  
*Gives You a Metering Choice!*

The advanced virtual LCD meters on ICOM's IC-7800 transceiver do a great job, but sometimes a real analog meter is desired.

LDG's DM-7800 Dual Meter system provides two 4.5 in. meters, one for the MAIN receiver and one for the SUB receiver. Seven individual scales indicate S-Meter, Id, Po, SWR, Comp, Vd and ALC. The IC-7800 menu lets you select functions for each meter. Additionally, the DM-7800 and the virtual meters on the radio can work together. For example, you can display SWR on the radio's meter and power output on the DM-7800; on receive, the S-meter reading is indicated.

The lush meter faces are back-illuminated LED in cool, high-visibility blue and draw only 20 to 60 mA depending on the brightness setting. Requires an external 12V DC @ 100 mA source (not supplied). There are separate calibration adjustments for MAIN and SUB, and a brightness control on the back. The textured gray case is a great match for the IC-7800. Includes a 3 ft. long interconnecting cable. Dim: 9.7" w x 4.0" h x 4.0" d; 1 lb ..... **\$179.99**



We accept I.M.P.A.C.® Government Credit Cards



**RCA-14 Transceiver Breakout Box**  
*Your Cable Problems - Solved!*

The RCA-14 is a breakout box for the accessory jacks on most popular transceivers. It comes with cables with the right DIN plugs, and all the outputs are standard RCA jacks. You simply plug the RCA-14 into your radio's accessory jacks, and all your ports are right there at your fingertips; just plug and play, one function or all or them, makes no difference. And, you can change things around as often as you like; it's as simple as swapping out an RCA plug.

The RCA-14 comes with a DIN-13 cable, a mini DIN-6 and a mini DIN-8. The DIN-13 cable breaks out the functions to RCA jacks 1-13, while the mini DIN-8 goes to RCA 1-6, and the mini DIN-8 goes to RCA 7-14. You can use the DIN-13 or the mini DIN-6 and/or 8, depending on your radio.

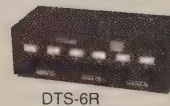
The RCA-14 is compatible with: ICOM 703, 706, 718, 746, 756, 7000 and 7800; YAESU 817, 857, 897 and 840; KENWOOD 480, 570, 2000; TEN-TEC Orion. Includes 5 interface cables for the most popular radios. Dim: 6.5" w x 3" d x 3" d; 1 lb ..... **\$59.99**



DTS-4



DTS-4R



DTS-6R



DTS-6

**The DTS-Series Antenna Switches**  
*Shack Convenience and Safety*

Tired of that tangled mess of coax and pigtails in your shack? Always worrying about whether you set the ground switch on your antenna before you left your shack? LDG's new DTS Series antenna switches are for you. Instantly switch your rig between 4 to 6 antennas with the press of a button. Safety features prevent "hot switching." Auto-grounding when you shut your rig down. Purchase the additional remote control and put the DTS series switch anywhere indoors and operate it from your desk. They cover 1.8-54 MHz and handle up to 1500W of RF power on HF (250W on 6M), and can be used with any coax-fed antenna. Requires 11-15VDC.

**DTS-4** 4-position,  
Dim: 4.5" w x 3" h x 5" d; 1 lb ..... **\$79.99**

**DTS-4R** Remote control for DTS-4 ..... **\$39.99**

**DTS-6** 6-position,  
Dim: 9.5" w x 2" h x 4.5" d; 1 lb ..... **\$99.99**

**DTS-6R** Remote Control for DTS-6 ..... **\$49.99**

**Includes All Cables**  
**Ready to go!**





# AMERITRON



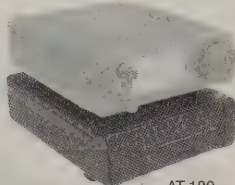
## True Legal Limit Antenna Tuner

**ATR-30** – Covers 1.8–30 MHz, including MARS and WARC. Designed for sustained RF output over 1500W CW and 3000W SSB, also 160M. Uses High-Q, high-current, edge-wound, arc-free roller inductor with heavy duty 500pf capacitor in T-match network. Matches most antennas using either coax or balanced feedlines. Illuminated Cross-needle, peak-reading 300/3000W SWR/Wattmeter. Includes: 3-core choke balun; 6-position antenna switch; 6:1 vernier reduction drives, crank with turns counter. Requires 12VDC or internal 9V battery. Dim: 13.25" w x 5.6" h x 17.5" d..... **\$559.99**

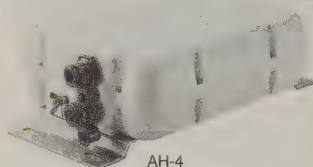
**ATR-20** Antenna Tuner – Looks and features same as ATR-30, but lower power rating. Handles 1.2KW PEP SSB; slightly less on 160 Meters. Dim: 13.5" w x 5.5" h x 13.5" d..... **\$429.99**

# ICOM

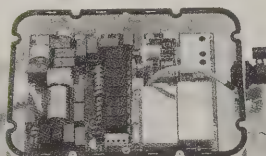
## ANTENNA TUNERS



AT-180



AH-4



AH-2B

**AH-4** Automatic Antenna Tuner – Covers 3.5–54 MHz using a 23 ft. or longer wire, or 7–54 MHz with optional AH-2B Antenna Element. Weather-resistant construction enables operation in all conditions. Rated 120W PEP, requires only 5–15W for tuning. For use with ICOM HF transceivers; just push the [TUNER] switch and it tunes to minimum SWR in less than 2.5 seconds. 45 memories store settings to provide one-second retuning. Supplied with mounting kit, 16 ft. control and coaxial cables. 13.8 VDC. Dim: 6.7" w x 2.7" h x 9" d ..... **\$259.99**

**AT-180** Automatic Antenna Tuner – Provides reliable coax matching from 1.9–54 MHz over an impedance range of 16.7–150Ω (HF) and 20–125Ω (50 MHz). 70 channel preset memories and "automatic tuner on" function when with the IC-7000, IC-703/IC-706 series or IC-718. Rated at 120W and requires about 8W to activate. 13.8 VDC. Dim: 6.5" w x 2.3" h x 8.9" d; 5.3 lbs ..... **\$369.99**

**AH-2B** Antenna Whip – Covers 7–54 MHz when used with the AH-4 tuner. Includes hardware for mounting to a tow bar, 8.2 ft. long ..... **\$349.99**

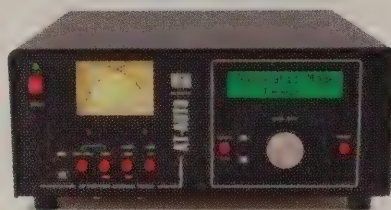


Cards



# PALSTAR

## ANTENNA TUNERS



**AT-AUTO** Automatic Antenna Tuner – 1500W single tone, 160–10M; High-speed processor controlled stepper motors, 1–30 sec. tuning; Large 2-line display for antenna feed status, frequency, and memory; Large plate 5kV variable capacitors; Roller inductor; Cross-Needle Peak/Peak-Hold metering. Dim: 12.5" w x 5.5" h x 16" d, 25 lbs ..... **\$1295.99**



For more Palstar models see the Price Guide

**AT-5K** – 3500W single tone continuous, 160–10M; Balanced OUTPUT, 5kW balun at the INPUT; Custom large plate variable capacitors; 10A, 7 kV roller inductor; Dim: 16" w x 8" h x 18" d, 30 lbs ..... **\$1195.99**



For more detailed info go to: [www.palstar.com](http://www.palstar.com)

**AT-1500DT** – 1500W PEP, 160–10M; Tunes balanced and unbalanced lines; Ceramic body roller inductor; 4:1 balun; Cross-Needle Peak/Peak-Hold metering; 6 position ant. switch; Powdercoat; Dim: 12.6" w x 4.5" h x 12" d, 12 lbs ..... **\$479.99**

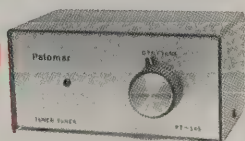


**AT-1KP** – 1200W SSB, 160–6M; Differential capacitor tuning; Roller inductor; 4:1 balun; Dim: 10.5" w x 4.5" h x 11" d, 8 lbs ..... **\$429.99**

Palomar Engineers

PT-340

Tuner-Tuner



Eliminate QRM, overheated final tubes and devices by allowing adjustment for your station antenna tuner without transmitting. Installs permanently between rig and tuner. Just turn on, and listen to the noise output in a receiver, then adjust the station tuner controls for a dip in the noise (a null). Covers 1.7–30 MHz. Uses 9V battery. Dim: 6" w x 5" h x 3" d ..... **\$99.99**

## West Mountain Radio



**CS-1** Computer Speaker System – An RF Proof amplified stereo speaker system, designed for the computer in or near your ham station. Optimized for interference-free operation in close range of any radio transmitter in the 1–1000 MHz frequency range. Stereo, high-fidelity response for use with voice or music. Solid, resonance free, wooden cabinet. Complete with audio cables and wall power supply. Input: stereo line level 1/8" mini jack; Output: nominal 3W per channel. Dim: 8.375" h x 4.125" w x 5.25" d (each speaker), 72 oz. (complete) .... **\$69.99**

W4RT  
Electronics



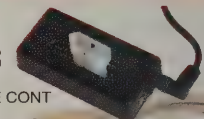
## MOTORIZED ANTENNA CONTROLLERS

**Antenna BOSS** – For Yaesu Radios. Makes essentially any motorized antenna "look like" an ATAS-100/120 to the FT-100/D, 847, 857, & 897 radios, allowing use of the radio's TUNE button for automatic tuning (6 to 40 meters). Works with 6–12 VDC motors drawing <750 mA, no special sensors in antenna required, no programming or compute required. BOSS works to full legal limit as well as with antennas having a shunt coil. The radio powers both the antenna motor and the BOSS .... **\$169.99**

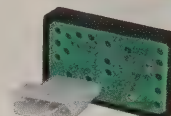
**Antenna BOSS II** – For Icom, Yaesu, & Kenwood Radios. Antenna BOSS II allows essentially any 6 to 160 meter motorized antenna to interface with Icom radios that work with the AH-4 tuner such as the IC-706, MKII, MKIIG, and 7000. Works with 12 VDC motors drawing <750 mA running, no special sensors in antenna required, and no programming or compute required. Works with radio's TUNE button. The BOSS II measures frequency and SWR. Advanced algorithms provide excellent auto-resonating (tuning) and mitigate motor overshoot by using dynamic braking and reducing motor speed during final antenna adjustment. Includes cable for connection to the IC-706 series radios.... **\$169.99**

## The Better RF Company

### TUNE CONTROLS



7000 TUNE CONT



706 TUNE CONT



YAE TUNE CONT

**706 TUNE CONT** Tune up Control for IC-706/718 – Plugs into the Molex connector on rear of radio. Converts radio's TUNER/CALL button function to TUNE MODE which limits RF output to 8–10W and produces a sidetone through the speaker. When finished, it reverts back to previous mode and power. No switching to AM or RTTY or holding the PTT. Works 160–6M (not 6M with original IC-706) ..... **\$32.99**

**7000 TUNE CONT** Tune up Control for the IC-7000 – Activates the TUNE/CALL button on your IC-7000 to tune an antenna or an external tuner while displaying the SWR on the radio. Senses the voltage on a screwdriver antenna motor for automatic turn on and off of the tune mode. User selectable tune-up power can be a constant 30W or pulsed at a 50% duty cycle. No modifications, the supplied cable connects the to the radio's CI-V jack. It utilizes Icom's CI-V data port, and the tuner port, for SWR readout, frequency, and the radio's preprogrammed sequencing of the tuner port. It remembers the last frequency of operation ..... **\$54.99**

**YAE TUNE CONT** Tune up Control for Yaesu FT-100, FT-857 and FT-897 – Makes the radio's TUNE button function to provide a low power output for tuning, adjusting an antenna, checking SWR, etc., in any mode. Interface cable included. No radio modification. Provides an interface between your YAESU transceiver and ICOM type accessories such as ICOM antenna tuners, tuners from other manufacturers and screwdriver antenna controllers..... **\$44.99**

Order Toll Free at 4 Locations Nation-Wide 1-800-558-0411 W

Browse Our Store On-Line at [www.aesham.com](http://www.aesham.com)



# MFJ SWR Analyzers

Make sure your antenna giving you top performance by using a MFJ SWR Analyzer. The 259B and 269 are complete Ham radio test stations, including: a Frequency Counter, RF signal generator, SWR Analyzer, RF Resistance and Reactance Analyzer, Coax Analyzer, Capacitance and Inductance Meter & more.

You will no longer have to drag your rig (RF source) out into the yard. No more running in and out of the house or up and down the tower to make readings and adjustments. MFJ analyzers are self-contained and fully portable units, with built-in battery power and RF source so you can take it right to the antenna. Take one reading to get a complete picture of your antenna, and make tuning adjustments on the spot.

Operation is simple, just connect the feed line, set the bandswitch and tune the dial. All information is clearly displayed instantly on the large, easy-to-read, two-line LCD screen and side-by-side meters.

When tuning transmission lines or making up phasing harnesses for stacking antennas, you can quickly determine exact 1/4 or 1/2 wavelengths. You can also determine the velocity factor, coax cable loss, length of coax and distance to a short or open in coaxial cable.

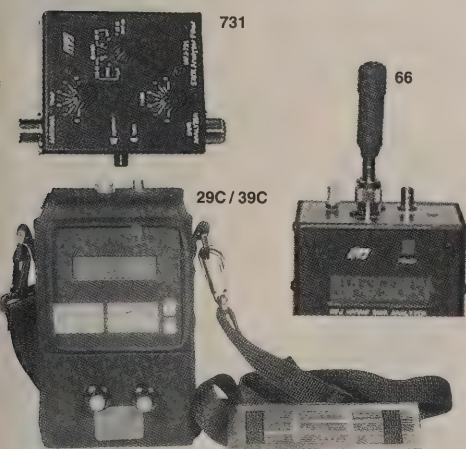
Read SWR, return loss and reflection coefficient at any frequency simultaneously, or inductance and capacitance at RF frequencies at a glance.

The 259B and 269 operate on 110V with the 1312D adapter (\$15.99) or on 10 AA Alkaline or Ni-Cad/Ni-MH rechargeable internal batteries, not included. For rechargeables, there is a built-in charger circuit that requires external 12VDC or MFJ-1312D. All metal cabinet. Dim: 6-3/4" h x 4" w x 2" d. The 259B has an SO-239 connector, the 269 has a type-N and is supplied with a type-N to SO-239 adapter.

**259B SWR Analyzer** – Covers 1.8-170 MHz..... **\$259.99**

**269 SWR Analyzer** – Looks nearly identical to, and has all the features of the 259B plus it covers 1.8-170 and 415-470 MHz. Built-in CoaxCalculator™ calculates coax length in feet given coax length in electrical degrees and vice versa, and any velocity factor. Read Complex Impedance as series equivalent resistance and reactance ( $R_s + jX_s$ ) or as magnitude ( $Z$ ) and phase (degrees). Also reads parallel equivalent resistance and reactance ( $R_p + jX_p$ ). Measure SWR and loss of coax with any characteristic impedance from 10 to over 600, including 50, 51, 52, 53, 73, 75, 93, 95, 300, 450 ohms. On the 415 to 470 MHz Range you can read SWR, return loss, reflection coefficient simultaneously, and cable loss in dB and match efficiency. Has LCD logarithmic SWR bargraph and SWR meter for quick tuning ..... **\$339.99**

## 259B/269 Accessories



**29C Carrying Case** – Tote your 259B anywhere with this custom carrying case. Wear it around your waist, over your shoulder, or clip it onto the tower while you work. Has back pocket for carrying dip coils and coax adapters. Special foam filled fabric cushions protects from wear ..... **\$24.99**

**39C Carrying Case** – Fits the 269 ..... **\$24.99**

**66 Dip Meter Adapter** – For grid dip operation. Set of two plug-in coils, covers 1.8-170 MHz ... **\$24.99**

**92AA10 10 Pack "AA" NiMH Batteries**.. **\$24.99**

**98 Accessory Pack** – Includes 39C case, 66 dip adapter and 1312D AC adapter ..... **\$60.99**

**98B Accessory Pack** – Includes 10 "AA" NiMH batteries, 39C case, 66 dip coils and AC adapter. **\$88.99**

**99 Accessory Pack** – Includes 29C case, 66 dip coils and 1312D AC adapter ..... **\$60.99**

**99B Accessory Pack** – Includes 10 "AA" NiMH batteries, 29C case, 66 dip coils and AC adapter. **\$88.99**

**99C Accessory Pack** – Includes 10 "AA" NiMH batteries and 1312D AC adapter ..... **\$40.99**

**731 Tunable Measurement Filter** – Use with 259B or 269 for measurements in the 1.8-30 MHz range while in the presence of strong RF fields from near-by broadcast stations or other RF sources.. **\$89.99**

## TIMESWAVE TZ-900 AntennaSmith™ Antenna Impedance Analyzer



**TZ-900S** with SO-239 connector... **\$1299.99** • **TZ-900N** with type-N connector ... **\$1299.99**

- Full Color TFT LCD Graphic Display
- Covers 0.2 to 55 MHz
- SWR • Impedance ( $Z$ ) • Reactance ( $r + jx$ )
- Reflection coefficient ( $\rho$ ,  $\delta$ ) • Smith Chart

### Day/Night Always-Visible Display

The transreflective TFT LCD color display is brilliantly visible in direct sunlight.

### Full Graphics - Rapid update

Data graph updates every two seconds. Quickly set the start, stop or center frequencies to see the data as you want it. A tap on a button gives you a different parameter. Tap another button to store a graph to print later or to display as a reference while you optimize your antenna system. Instantly see the effect of a change!

### Adjustable Frequency Cursor/Generator

Quickly tune the cursor to check your antenna system at the desired frequency while looking at the big picture on a graph. The Direct Digital Synthesizer makes a great RF signal generator in the Synthesizer mode. Easily calibrate to WWV with 1 Hz frequency resolution.

### Rugged and Portable

Extruded aluminum case, (4) AA NiMH batteries for hours of field operation. A 12 VDC power supply/charger included.



## Palstar, Inc Antenna Analyzer

**ZM-30** – An automated micro-controlled SWR antenna analyzer with an 8-bit controller and precision low power DDS signal generator. It also includes a self-calibrating reflectometer and displays SWR at selectable frequencies from 1 to 30 MHz. It measures: SWR, Impedance, Reactance, Inductors, Capacitors, Transmission lines, Stubs, Q, and Resonant frequency. There is a serial port for field upgradable software. Battery operation allows you to take it to the antenna. Durable, powder coated front panel. Dim: 3" w x 4" h x 2" d ..... **\$399.99**



# MEJ

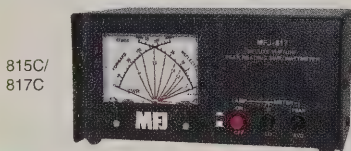
## SWR POWER METERS



**864** – Covers 1.8–60 MHz, 144 MHz and 440 MHz bands. Dual sensors allow connection to an HF and VHF/UHF rig at the same time. Monitor SWR and power simultaneously on the lighted Cross-Needle meter. Ranges: 30/300W forward and 6/60W reflected. Requires 12VDC for meter illumination light. Dim: 7.25" w x 2.5" h x 2.25" d..... **\$89.99**

**862** – Similar to the 864, but for 144, 220 & 440 MHz. Ranges: 30/300W forward and 6/60W reflected. Dim: 5.75" w x 2.5" h x 2.25" d..... **\$59.99**

**860** – Similar to the 864, but covers 1.8 to 60 MHz. Ranges: 30/300W forward and 6/60W reflected. Dim: 4.5" w x 2.25" h x 3" d..... **\$49.99**



**815C** – Simultaneously reads true peak or average power and SWR simultaneously on a large illuminated three-inch Cross-Needle meter. Covers 1.8–30 MHz with 300/3000W forward and 60/600W reflected power ranges. SO-239 connectors. Requires 12VDC. Dim: 6" w x 3.5" h x 4.5" d..... **\$89.99**

**817C** – Similar to 815C but for 144/220/440 MHz with 300/30W forward and 60/6W reflected power ranges. Dim: 6" w x 3.5" h x 4.5" d..... **\$99.99**



**812B** – Indicates forward and reflected power on 2M/220 MHz and SWR from 144–220 MHz, plus field-strength from 1–220 MHz. Power ranges: 30/300W. Dim: 4.5" w x 2.25" h x 3" d..... **\$39.99**

**816** Toroidal Meter – Indicates forward and reflected power from 1.8–30 MHz. Power ranges: 30/300W. Dim: 4.5" w x 2.25" h x 3" d..... **\$39.99**

**844** VHF/UHF SWR/Power Meter – Covers 144 and 440 MHz, rated up to 200W. Multi-colored meter shows SWR/POWER in 15, 60, and 200W ranges. Great to take along for portable, HT or mobile rigs. Dim: 3.75" w x 3" h x 1.25" d... **\$79.99**



**868** SWR Wattmeter  
Large, 6-1/2 inches diagonally across the meter scale. Easy-to-read with big high contrast numbers. Covers 1.8–30 MHz indicating Peak or Average Forward and Reflected power and VSWR in 20/200/2000W ranges. Power saver circuit. Uses 9V battery, 12V DC or 110V AC with MFJ-1312D adapter (\$15.99). Dim: 7" w x 5.5" h x 5" d..... **\$139.99**



## GrandMaster™ SWR/Wattmeters

Four models with different frequency and power ranges. Easy-to-read 3.25" w x 1.25" h illuminated meter shows peak and average, forward and reflected power in three ranges. Dim: 7.5" w x 3.125" h x 4.25" d.

**870** (HF range) – 1.6 to 60 MHz.

Power ranges: 30/300/3000W + VSWR ..... **\$99.99**

**872** (HF/VHF range) – 1.8 to 200 MHz

Power ranges: 5/20/200W + VSWR ..... **\$99.99**

**873** (VHF/UHF range) – 125 to 525 MHz.

Power ranges: 5/20/200W + VSWR ..... **\$119.99**

**874** (HF/VHF/UHF range) – 1.8 to 525 MHz.

Power ranges: 5/20/200W + VSWR..... **\$129.99**

## 267 Precision SWR/Wattmeter with Dry Dummy Load

Usable 1.8 to 60 MHz.

Large 3 in. Cross-Needle

meter shows peak and

average forward and

reflected power and SWR.

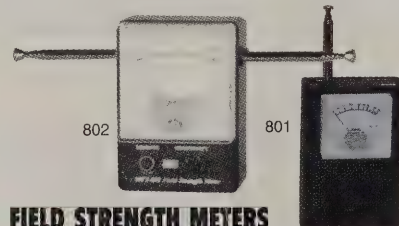
Power: 300/3000W forward, 60/600W reflected;

SWR 1:1 to 8:1; Built-in 100W 50 ohm dummy

load; Load to antenna switch; Uses 12VDC for the

meter lamp or 120VAC with 1312D, or 9V battery.

Dim: 4" w x 3.125" h x 10" d..... **\$159.99**



## FIELD STRENGTH MEYERS

**801** Super Compact Field Strength Meter – You can read relative field strength from your antenna, measure antenna performance and discover how strong your antenna field is. Its compact size fits in the palm of your hand. Telescopic whip included. Dim: 2.375" w x 3.625" h x 1" d..... **\$24.99**

**802** Bipolar Field Strength Meter – Dual whips are included. Dim: 2.4" w x 4" h x 1.5" d..... **\$44.99**



## ALAN BROADBAND ZAP CHECKER

### Broadband Field Strength Bug

**Detector** – A wideband 10 MHz to 4.5 GHz receiver that indicates the presence of RF energy. Detects 2.4 GHz bugs at 40 feet. Analog meter and LED display for viewing at a distance and at night. Silent vibrator mode for in-pocket detection and hands-free operation. Use for bug detection, wireless, aircraft maintenance, health/environmental and ham radio. Detects and measures cell phone radiation, microwave ovens, computer wireless devices, microwave data transmissions, covert surveillance cameras and bugs, radiating PCs, electronic games, and background radiation levels. Dim: 2.1" w x 1.25" h x 5" h; 5 oz. **ALA ZAP CHECKER .... C/O \$89.99**

**185** – Same as the ZAP CHECKER but is more sensitive than the original and covers approximately 3 MHz to 5.8 GHz. Also features an analog/digital switch..... **\$159.99**

## MISC METERS & COUNTERS



### 224 2M FM Signal Analyzer™

Covers 143.5–148.5 MHz. Measures signal strength (60dB range), antenna gain, beamwidth, front-to-back ratio, sidelobes and feedline loss. Check and set FM deviation, plot field strength patterns, position antenna, measure preamp gain, tune transmitters and filters, analyze modulation wave forms, measure audio distortion, noise and peak deviation. Headphone jack. Dim: 4" w x 2.5" d x 6.75" h. **\$159.99**



### 852 Power Line Noise Meter

A sensitive AM receiver fixed tuned in the 135 MHz range coupled with a directional telescopic dipole antenna locates AC line and other noise fast. Antenna is balun isolated to give a clearly defined null for pin-pointing interference sources. Wide range level meter to view or plug in headphones to hear the noise, or use a tape recorder for later playback. Uses 9V battery. Dim: 2.8" w x 4" h x 1.5" d..... **\$109.99**

### 805 Pocket-Sized RFI Detector

Track and eliminate RFI caused by radiating cables and wires. Simply clamp the top mounted current transformer over a suspected cable or wire (up to 1/4 inch diameter) to detect RFI causing common-mode currents. Useable from VLF to VHF. Uses 9V battery. Dim: 2.25" h x 4.75" h x 1" d..... **\$89.99**



**854** RF Current Meter – The top-mounted sense coil snaps over wires, cables, etc. up to 1/2" diameter. Measures actual RF currents in antenna elements, ground wires, radials and outside of coax feedlines. Six ranges, 30mA to 3A; Accurate 1 to 30 MHz; Range with variable sensitivity control; Auto-off, press-to-test circuit; All aluminum case and G-10 PC board. Dim: 2.5" w x 5.5" h x 1.5" d; 11 oz..... **\$109.99**



### 886 Pocket Frequency Counter

Covers 1 MHz to 3 GHz with direct 300 MHz count with 0.1 Hz resolution on a 10-digit, 3/4 in. LCD display. Ultra sensitive synchronous detector; RF Signal Strength LCD bargraph; Four selectable gate times give 0.1–10 Hz resolution in the 300 MHz range and 10–1000 Hz resolution in the 3 GHz range. Includes a rechargeable 6-hour Ni-Cd battery. Dim: 2.75" w x 3.25" d x 1.25" d..... **\$119.99**

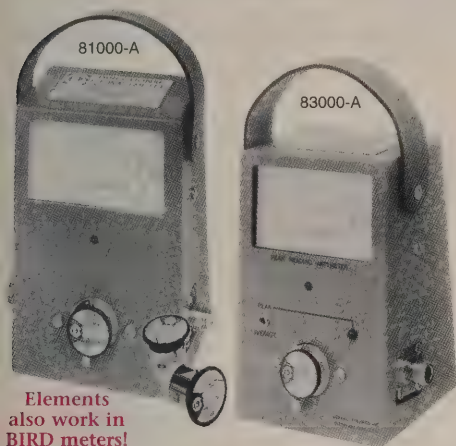


### 888 Deluxe Frequency Counter

Measures frequency and period. Covers 10 Hz to 3 GHz with a 10-digit LCD and an ultra-sensitive synchronous detector with 16-section RF signal strength bargraph. A high-speed 300 MHz direct counter with 0.1 Hz resolution and four selectable gate speeds. Hi-Z low range; Auto-hold; LED backlight; Beeper; Hold; Low battery indicator. Built-in 6-hour Ni-Cd battery pack. Complete with battery pack, charger, and telescopic whip. Dim: 2.75" w x 4.25" h x 1.25" d; 9 oz..... **\$189.99**



# Coaxial RF Directional Dynamics Wattmeters



Elements  
also work in  
BIRD meters!

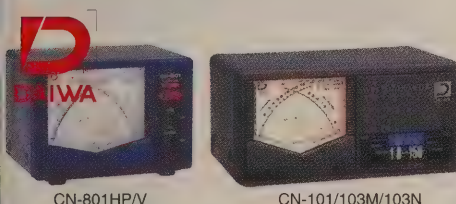
**81000-A RF Directional Wattmeter** - Gives accurate RF Power measurement in 50Ω coaxial systems. Uses an internal line section and "Quick Match" plug in elements in the range of 0.1-10,000 watts full scale, and from 0.45 to 2300 MHz.

Simply plug in the appropriate measuring element and select forward or reflected direction. Measured average RF power is indicated directly on the large 4.5" "taut-band" meter with three scale display. The meter is also mirrored and shock mounted to provide the most reliable and accurate readings.

Strong shock-proof housing. With SO-239 connectors (Type-N female Special Order) ..... **\$289.99**

**83000-A RF Peak Reading Wattmeter** - Similar in appearance and operation to the standard Model 81000-A wattmeter. Contains an amplifier which allows measuring of both Average and Peak Envelope Power (PEP) with the flip of a switch. Internal 9V battery is required and supplied for peak reading mode ..... **\$413.99**

See Price Guide for list of Plug-in Elements



CN-801HP/V CN-101/103M/103N

## Cross Needle SWR/Power Meters

**CN-101** - Covers 1.8-150 MHz, rated at 1500W from 1.8-60 MHz and up to 1000W at 144 MHz. Shows Forward/Reverse power and VSWR simultaneously. Three power ranges: 15/150/1500W (RMS or PEP); ±10% of full scale accuracy. SWR detection sensitivity: 4W minimum; 50Ω, SO-239 connectors. Dim: 6" w x 3" h x 3.9" d; 1.5 lbs ..... **\$99.99**

**CN-103M** - Same as CN-101, but covers 140-525 MHz and rated at 200W. Two power ranges: 20/200W (RMS or PEP) ..... **\$99.99**

**CN-103N** - CN-103M with N connectors **\$109.99**

## Professional Series

The CN-801 series of Cross Needle meters feature the largest meter face, and the most accurate in the Daiwa line. Calibrated in .5W increments with 5W SWR detection sensitivity and lighted. The 801HP reads true PEP. Dim: 6" w x 4" h x 4.5" d; 2.2 lbs

**CN-801HP** - 1.8-200 MHz, 20/200/2kW **\$159.99**

**CN-801V** - 140-525 MHz, 20/200W ..... **\$154.99**

**CN-801SII** - 900-2500 MHz,  
2/20W/200mW, type-N .... **\$269.99**

# DIAMOND ANTENNA



## SWR/Power Meters

(left) Five models measure power and SWR with 5-10% of F.S. accuracy. Illuminated meter, sensor switch, LED indicator. Power ratings for intermittent operation. For continuous, ratings vary with frequency. SO-239 connectors on all except SX-1000 (type-N). Dim: 6" w x 2.5" h x 4" d; 2 lbs.

**SX-100** - 1.6-60 MHz, 30/300/3kW PEP **\$134.99**

**SX-200** - 1.8-200 MHz, 5/20/200W PEP. **\$94.99**

**SX-400** - 140-525 MHz, 5/20/200W PEP **\$114.99**

**SX-600** - Dual band, 1.8-160 MHz and 140-525 MHz, 5/20/200W PEP ranges ..... **\$169.99**

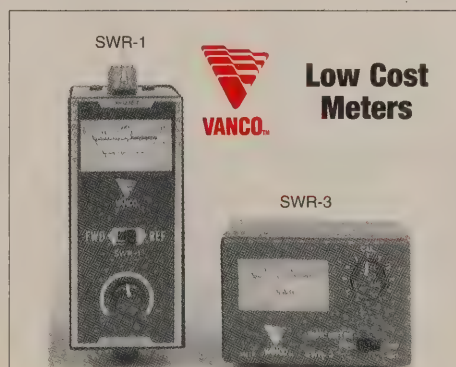
**SX-1000** - Dual band, 1.8-160 MHz and 430-1300 MHz, 5/20/200W PEP ranges ..... **\$214.99**

## Cross-Needle SWR/Power Meters

(right) Indicate forward/reflected power and SWR simultaneously. 50Ω impedance, SO-239 connectors, 10% F.S. accuracy; 3.3" w x 3.4" h x 3.7" d; 9 oz.

**SX-20C** - 3.5-30/50-54 and 130-150 MHz ranges; 30/300W. Needs 5W minimum for VSWR. **\$89.99**

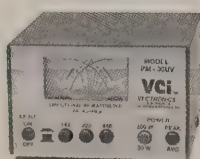
**SX-40C** - 144-470 MHz (220 MHz with correction factor); 15/150W (3W minimum power) ... **\$79.99**



**SWR-1 SWR/Field Strength** - Range: 3.5-150 MHz; Z: 50-52Ω; SWR: 1:1-3:1; Accuracy: 5%; Meter sensitivity: 300uA; 5 in. RF pick-up antenna. Dim: 6" h x 2" w x 2.9" d; 14 oz. .... **\$29.99**

**SWR-3 SWR Meter** - Range: 1.7-30 MHz; Imp: 52Ω; SWR: 1:1-3:1; Accuracy: 5%; Sensitivity: 300uA. Dim: 2.5" h x 3.5" w x 3" d; 6 oz. .... **\$19.99**

## VECTRONICS SWR/POWER METERS



**PM-30HF** - Range: 1.8 to 60 MHz. Displays peak and average forward and reflected power, and SWR simultaneously on a dual movement back-lit cross-needle meter. Power Ranges: 300 and 3000 Watts. SO-239 connectors. Dim: 5.3" w x 3.5" h x 5.75" d; 1.2 lbs. .... **\$79.99**

**PM-30UV** - Same features as the PM-30HF, but covers 144/220/440 MHz bands. 30/300W ranges. SO-239 connectors ..... **\$89.99**

# DUMMY LOADS

Simulates an accurate 50 ohm antenna and allows testing or tuning a transmitter without radiating a signal on the air.

**A must for every ham shack!**



250/250X

260C

**250 Versaload** - A 50 ohm Oil-filled Dummy Load providing low VSWR up to 400 MHz. Rated at 1000W CW or 2000W PEP for 10 minutes. Good for 20 minutes at 50% power rating and continuous operation at 200W CW or 400W PEP. SO-239 connector. Dim: 7.3" h x 6.6" diameter. Supplied with high-quality oil. .... **\$69.99**

**250X** - Same as above, but requires oil. .... **\$49.99**

**Dry Loads** - A non-inductive 50 ohm resistor mounted in a metal housing, air cooled. Full rated load for 30 sec., derating curve to 5 min.

**260C HF/VHF Range** - Rated at 300W at 1:1 VSWR up to 30 MHz, 1.5:1 to 650 MHz. SO-239 connector. Dim: 2.5" w x 2.5" h x 7" d. .... **\$39.99**

**260CN** - Has type "N" connector ..... **\$49.99**

**264 UHF, Wide Range** - Good from 1.3 to 650 MHz and usable up to 750 MHz. Rated at 1500W for 10-seconds, 100W for 10-minutes. SO-239 connector. Dim: 3" w x 3" h x 9" d. .... **\$74.99**

**264N** - Has type "N" connector ..... **\$84.99**

**267 SWR/Wattmeter with Dry Dummy Load** - A built-in 100W 50 ohm dummy load with a 3 inch cross-needle meter shows peak and average forward and reflected power and SWR. Usable 1.8-60 MHz. Power: 300/3000W forward, 60/600W reflected Usable 1.8 to 60 MHz. Dim: 4" w x 3.125" h x 10" d. .... **\$159.99**

## AMERITRON

**ADL-1500 Oil Cooled Dummy Load** - Similar to MFJ-250, 1500W up to 30MHz. .... **\$74.99**

**ADL-2500 Dry Dummy Load** - Similar to Vectronics DL-2500 below, 2500W up to 30 MHz, fan cooled. .... **\$199.99**

## VECTRONICS



DL-300M DL-650M

**DL-300M Dry Dummy Load** - Power rated at 300W for 15 sec., to 100W for 40 sec. VSWR <1.3:1 at 150 MHz. Dim: 5" h x 2" d x 2.9" h; 8 oz. **\$49.99**

**DL-650M Dry Dummy Load** - Good all the way up to 650 MHz. Power handling curve is rated at 1500W for 10-seconds, down to 100W for 10 min. VSWR <1.3:1 at 500 MHz. .... **\$79.99**

**DL-2500 High-Power Dry Load** - A fan cooled heavy-duty load for up to 150 MHz. Power handling curve rated at 2500W for 1 minute, down to 500W for 10 minutes ..... **\$189.99**





Model	Type	Dia. (in.)	Center conductor	Insulation type	Shield coverage	Jacket type	Imp. (Ω)	Vel. factor	Loss/100' 100 MHz
8216	RG-174 Sub-miniature	.11	26 AWG bare copper coat steel	Solid polyethylene	90% tinned copper braid	Black PVC	50Ω	66%	8.4 dB
8219	RG-58A/U	.195	20 AWG stranded bare copper	Foam polyethylene	96% tinned copper braid	Black PVC	53.5Ω	73%	4.5 dB
8240	RG-58/U	.195	20 AWG solid bare copper	Solid polyethylene	95% tinned copper braid	Black PVC	51.5Ω	66%	3.8 dB
8259	RG-58A/U	.193	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black PVC	50Ω	66%	5.4 dB
8262	RG-58C/U non-contaminating	.195	20 AWG stranded tinned copper	Solid polyethylene	95% tinned copper braid	Black, non-contaminating PVC	50Ω	66%	5.4 dB
9258	RG-8X Mini-8	.242	16 AWG stranded bare copper	Foam polyethylene	95% bare copper braid	Black PVC	50Ω	82%	3.1 dB
8214	RG-8/U	.403	11 AWG stranded bare copper	Foam polyethylene	97% bare copper braid	Black PVC	50Ω	78%	1.7 dB
8237	RG-8/U	.405	13 AWG stranded bare copper	Solid polyethylene	97% bare copper braid	Black PVC	52Ω	66%	1.9 dB
8267	RG-213/U non-contaminating	.405	13 AWG stranded bare copper	Solid polyethylene	97% bare copper braid	Black, non-contaminating PVC	50Ω	66%	2.1 dB
9913	Low loss semi-flexible RG-8/U	.405	10 AWG solid bare copper	Semi-solid polyethylene	100% bonded foil plus 90% tinned copper braid	Black PVC	50Ω	84%	1.3 dB
9913F7	Low loss flexible RG-8/U	.405	10 AWG stranded bare copper	Gas-injected foam polyethylene	100% bonded foil plus 90% tinned copper braid	Black Belflex®	50Ω	84%	1.5 dB
8241	RG-59/U	.242	23 AWG solid bare copper	Solid polyethylene	95% bare copper braid	Black polyethylene	75Ω	66%	3.4 dB
8213	RG-11/U	.405	AWG 14 solid bare copper	Gas-injected foam polyethylene	97% bare copper braid	Black polyethylene	75Ω	84%	1.3 dB
8238	RG-11/U	.405	18 AWG stranded tinned copper	Semi-foam polyethylene	97% bare copper braid	Black PVC	75Ω	66%	2.0 dB

### ROTOR CABLE

**8448** Standard duty, 8 wire - Up to 100 ft. runs. Six #22 and two #18 AWG tinned copper conductors. PVC insulation and PVC jacket.

**9405** Heavy duty, 8 wire - Over 100 ft. runs. Six #18 and two #16 AWG tinned copper conductors. PVC insulation and PVC jacket.

**8484** Standard duty, 4 wire - (4) #20 AWG tinned copper conductors. PVC insulation and PVC jacket.

### PREASSEMBLED COAXIAL HOOK-UPS

**9354** - 50' RG-8/U low-loss foam, PL-259s **\$99.99**

**9355** - 75' RG-8/U low-loss foam, PL-259s **129.99**

**9356** - 100' RG-8/U low-loss foam, PL-259s **149.99**

### ANTENNA & GROUND WIRE

**8000** - #14 AWG (7x22) stranded bare copper-covered steel antenna wire.

**8018** - #8 AWG (solid) soft annealed aluminum ground wire - multiples of 50 ft.



**LMR-400** Low-Loss Flexible Coaxial Cable - The ideal replacement for RG-8/9913 air-dielectric cables. **Flexible:** Minimum bend radius of 1 in. is easier to handle compared to corrugated copper or smooth wall copper hard-line cables; **Dielectric:** High velocity gas-injected closed cell foam dielectric, 0.208 in.; **RF Shielding:** Bonded aluminum tape outer conductor, overlapped to provide 100% coverage and a 95% overall tinned copper braid. Lowest loss of any RG8/RG213 type cable; **Inner Conductor:** Solid BCCA1, 0.108 in.; **Jacket:** UV protected black polyethylene, 0.405 in.; **Velocity Factor:** 85%; **Loss (100 ft.):** 0.9dB @ 50MHz; 1.5dB @ 150MHz; 1.9dB @ 220MHz; 2.7dB @ 450 MHz; 3.9 dB @ 900 MHz; 6.0dB @ 2000 MHz..... per ft. **83¢**

**LMR-400500** - 500 ft. roll of above .... **\$319.99**

**LMR-400-DB** Watertight Flexible Coaxial Cable Same specifications as LMR-400 but incorporates an inert flooding compound that completely eliminates all paths of water migration and ingress for long term reliability (10 year warranty) per ft. **92¢**

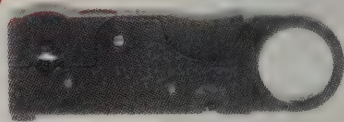
**LMR-400DB500** - 500 ft. roll of above **\$359.99**

**LMR-400-UF** ULTRA-FLEX Coaxial Cable - Has a stranded center conductor. Very flexible, best used on rotating antenna systems and for jumpers. Loss is 15% greater than LMR-400 ..... per ft. **\$1.18**

**LMR-400UF500** - 500 ft. roll of above **\$469.99**



### ROTARY COAX CABLE STRIPPERS



For quick, clean prep of coaxial cable without damage. Insert coax, turn clockwise 4 or 5 times.

**24-7735P** - for RG-58, RG-59, RG-62.. **\$23.99**

**24-7736P** - for RG-6, RG-59, 8281..... **22.99**

**24-7739P** - for RG-8, RG-11, RG-213..... **33.99**

## READY-MADE COAX CABLE ASSEMBLIES

### CXP1318FC

Connector: **PL259 both ends.**  
Burial: **Yes.** UV Resistant: **Yes.**  
Shields: **2** (100% bonded foil+95%TC Braid) **V/P 84%**  
Attenuation @ 100ft: 50MHz 1.1, 150MHz 1.9, 450MHz 3.3  
Recommended frequencies: 50-450MHz.

### CXP008C

Connector: **PL259 both ends.**  
Burial: **No.** UV Resistant: **Yes.**  
Shields: **1** (95%BC Braid) **V/P 78%**  
Attenuation @ 100ft: 10MHz 0.51, 30MHz 0.9, 50MHz 1.2  
Recommended frequencies: 1-50MHz.

### CXP1318FN

Connector: **"N" Male both ends.**  
Burial: **Yes.** UV Resistant: **Yes.**  
Shields: **2** (100% bonded foil+95%TC Braid) **V/P 84%**  
Attenuation @ 100ft: 150MHz 1.9, 450MHz 3.3,  
Recommended frequencies: 150MHz & higher.

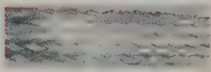
### CXP08XC

Connector: **PL259 both ends.**  
Burial: **No.** UV Resistant: **Yes.**  
Shields: **1** (95%BC Braid) **V/P 78%**  
Attenuation @ 100ft: 10MHz 0.98, 30MHz 2.0  
Recommended frequencies: 1-30MHz.

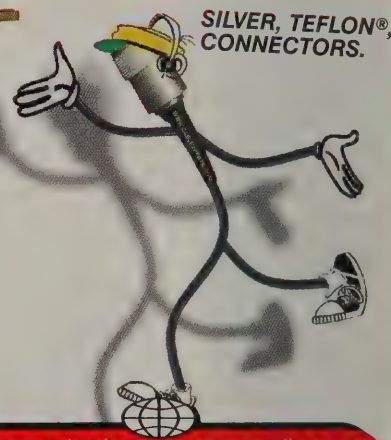
### CXP213C

Connector: **PL259 both ends.**  
Burial: **Yes.** UV Resistant: **Yes.**  
Shields: **1** (97%BC Braid) **V/P 66%**  
Attenuation @ 100ft: 10MHz 0.62, 30MHz 1.2  
Recommended frequencies: 1-30MHz(High Power).

### BRAIDED GROUND STRAP



Sizes: ..... 1/2" wide  
or ..... 1" wide



## CABLE X-PERTS, INC.

Connecting You to the World...

See Price Guide for Cable X-perts pricing.



## UHF CONNECTORS

General purpose and, with the use of optional reducing adapters, accommodate a wide range of applications. Rated for up to 300 MHz. Impedance is non-constant and voltage rating is 500V peak.



### AMPHENOL

**83-1SP-1050** – PL-259 Male coax connector  
**83-1SP** – PL-259 silver-plated coax connector

### CZL

**401TS** – PL-259; silver plated, Teflon®, gold pin C/O

### AMPHENOL

PL-259 Reducers  
**83-185-RFX** – For RG-58  
**83-168-RFX** – RG-59/8X

### AMPHENOL

**83-878** – UHF single hole bulkhead receptacle

### AMPHENOL

**83-1R** – SO-239 UHF panel receptacle

### SHAKESPEARE

**PL-259CPG** – PL-259; no strip, solderless male connector for RG-8X & RG-58/AU

### SHAKESPEARE

**PL-258CPG** – No strip, solderless splice for RG-8X & RG-58/AU

## MICROPHONE AUDIO & DIN CONNECTORS



### VANCO

**CBC-8P** Panel mount 8-pin male

### KENWOOD

**7-PIN DIN** plug  
**8-PIN DIN** plug  
**13-PIN DIN** plug

### PHILMORE

**61-608B** 8-pin female microphone plug

### VANCO

**CBC-4** 4-pin female microphone plug  
**CBC-5** 5-pin female microphone plug  
**CBC-6** 6-pin female microphone plug

### HOUSE OF DEALS

**AP-115** 1/4" metal stereo plug  
**AP-135** 3.5mm stereo mini-phone plug

### DALBANI

**15-0293** 3.5mm mono-audio phone plug C/O

## TYPE-N CONNECTORS

Constant 50Ω impedance, excellent performance up to 11 GHz and 1,500V peak. Internal gaskets provide better weather resistance than the standard UHF type.



### AMPHENOL

**82-202-1006** – Type-N Male connector for 8214, 9913 & 9913F  
**34025** – Type-N Male connector for RG-58



### CABLE X-PERTS

**6633S** – Two-piece, EZ-install Type-N connector for 9913/8214



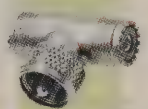
### AIM

**26-8011** – Type-N chassis mount receptacle

### AMPHENOL

**82-24** – Type-N panel mount receptacle

## COAXIAL ADAPTERS



### AMPHENOL

**83-1T** UHF T-connector



### AIM

**27-8140** BNC T-connector



### AMPHENOL

**83-877** – UHF double male adapter



### AMPHENOL

**4400** – SO-239 to Type-N male adapter



### AIM

**26-8015** – SO-239 to Type-N male adapter

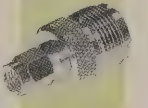


**26-8016** – BNC female to Type-N male adapter



### AMPHENOL

**31-28** – BNC female to PL-259 adapter



### AIM

**27-8120** – BNC female to PL-259 adapter



### HOUSE OF DEALS

**SMA-872** – SO-239 to SMA plug adapter



### AIM

**27-8130** – BNC double male adapter



### AIM

**25-7420** – BNC male to SO-239 adapter

**26-8017** – BNC male to N female adapter

### AMPHENOL

**2900** – SO-239 to BNC male adapter

## BNC CONNECTORS

Miniature, lightweight connectors for RG-58/59 type coax. Quick disconnect bayonet coupling, small size and low cost. Rated for up to 4 GHz. Impedance is 50Ω nominal. Voltage rating is 500V peak.



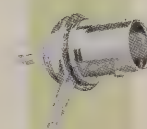
### AMPHENOL

**31-002** BNC Male for RG-58  
**31-012** BNC Male for RG-59/8X



### AIM

**CPAD-556M** BNC Dual Female chassis mount



### AMPHENOL

**31-221** BNC Female chassis mount



### AMPHENOL

**83-1AP** – UHF right angle adapter



### AMPHENOL

**82-64** – Type-N right angle adapter



### AIM

**26-8016** – BNC female to Type-N male adapter



### AIM

**25-7365** – BNC female to SO-239 adapter



### AIM

**29-4140** – SO-239 to mini-PL-259 adapter



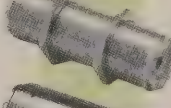
### AIM

**26-8014** – Type-N female to PL-259 adapter



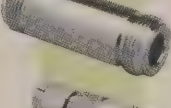
### AMPHENOL

**83-1J** – UHF double female connector



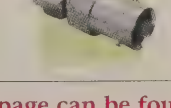
### AIM

**CPAD-207** – Chassis or panel mount SO-239 double female connector



### AIM

**26-8010** – Type-N double female connector



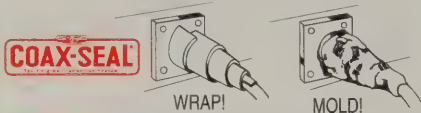
### AIM

**29-3855** – BNC female to SMA male adapter

Prices for items on this page can be found under CONNECTORS in the Price Guide.



## ANTENNA & COAX CONNECTOR PROTECTION



**UNV 104** Hand Moldable Plastic for Antenna Component Protection – The quick and effective way to seal and protect all types of coaxial connectors and antenna system components. Simply wrap it on like regular tape, then mold it to any shape. It adheres tightly to metal, vinyl and polyvinyl coax outer jackets. Stays flexible and sealed at any temperature to resist moisture penetration. Permanent flexibility makes it possible to remove and reinstall fittings, then re-seal by reforming the same material. Non-toxic and non-contaminating roll, 1/2" w x 60' ..... **\$3.99**



**STUF** Dielectric Water-proof Connector Filler High purity macroscopic foam dielectrically simulates the coaxial cable core and seals out moisture. Just fill coax connectors and tighten. The filler material hydraulically channels into all voids and points of moisture entry. Non-hardening, easy to remove. No silicone or other additives to harm coax cable material ... (tube) **\$5.99**



### PENETROX™

A highly conductive grease recommended for use on aluminum-to-aluminum and aluminum-to-copper connectors, bare conductors, and bus bars. Assures long term high conductivity joint by sealing out air and moisture to prevent corrosion and reformation of oxide film. Apply to mating pieces of antenna components, tubing, etc. during assembly to provide a non-corrosive, low resistance and air tight seal. Easy disassembly ..... **PENETROX A** (4oz. bottle) **\$14.99**

## AMERITRON

### REMOTE CONTROLLED ANTENNA SWITCHES



**RCS-4** – Select up to 4 different HF antennas by supplying control voltages thru the coax without the need for a separate control line. The weatherproof switch box can be tower, mast or wall mounted. Uses 3 heavy duty 10A contact relays on a fiberglass circuit board 5.25" d x 7" w x 3" h.; 120VAC Rated 1.8–30 MHz, 2KW; Safe 14VDC control; Indoor control console locates at operating position. Dim: 6" d x 6" w x 2.5" h. .... **\$139.99**



**RCS-8V** – Independently or simultaneously select up to 5 different antennas using one coaxial feedline and 8-wire control cable. Internal wiring allows grounding or floating unused terminals as required. Rated at 5KW to 30 MHz, 1KW to 150 MHz.. **\$149.99**

**RCS-8VN** – Same as RCS-8V but with N-type female connectors ..... **\$159.99**

**RCS-10** – Select up to eight HF antennas using one feed line and a single four conductor control line (not supplied). Long life sealed relays with 16A current rating. Rated up to 100 MHz and over 5KW power into matched loads below 30 MHz..... **\$169.99**



### MFJ



**1703** Rig/Antenna RF Safety Switch – Prevents your rig from transmitting into nothing. Your rig is always connected to one of two antennas. Connect two rigs and two antennas and switch to different combinations. Range: 1.8–30 MHz; up to 300W SSB/150W CW. Metal cabinet with mounting tabs. Dim: 6.5" w x 2.5" h x 1.5" d ..... **\$24.99**

## COAXIAL ANTENNA SWITCHES

### ALPHA DELTA



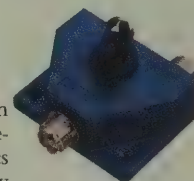
Two and Four Position Switches  
Full Product Descriptions on page 89.

### DAIWA

#### CS-201 2-Position Coaxial Switch

A high quality switch with excellent high frequency RF characteristics due to cavity and heavy die-cast metal construction. Frequency range up to 600 MHz with less than 0.12 VSWR. Less than 0.2dB insertion loss and 60dB isolation between terminals. Handles 2.5 KW PEP or 1KW CW. Automatic grounding of unused terminals. SO-239 connectors..... **\$32.99**

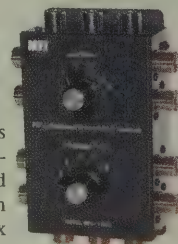
**CS-201GII** – Uses type-N connectors. **\$44.99**



### MFJ

#### 1700C Antenna and Transceiver Switch with Lightning Protection

Switch up to six antennas and six rigs in any combination. For 50 or 75Ω, rated 2KW PEP or 1KW CW from 1.8–30 MHz. Dim: 10" w x 3" h x 1.5" d ..... **\$99.99**



**1701** Antenna Switch – Six positions, 50–75Ω. Rated for 2KW PEP or 1KW CW from 1.8–30 MHz. Grounds unused positions for surge protection. Dim: 10" w x 3" h x 1.5" d ..... **\$69.99**



**1702C** Antenna Switch – Two positions + center ground, 50Ω, rated to 500 MHz. Handles for 2.5KW PEP or 1KW CW. Less than 0.2dB loss and greater than 60dB isolation @ 300; 50dB @ 450 MHz. Grounds unused positions for surge protection. .... **\$34.99**

**1702CN** – Uses type-N connectors for lowest loss on UHF. Good up to 1.1 GHz ..... **\$39.99**

**1704** Antenna Switch – Four positions + center ground, 50Ω, rated to 500 MHz. Handles 2.5kW PEP, 1KW CW. Less than 0.2dB loss and greater than 50 dB isolation @ 500 MHz. Includes lightning protection with a replaceable gas tube..... **\$74.99**

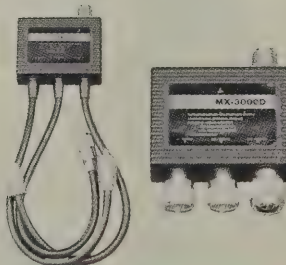
**1704N** – Uses type-N connectors..... **\$79.99**

## DUPLEXERS

Type	S0239 PL259/PL259	S0239 PL259/Nfemale	S0239 S0239/S0239	S0239 PL259/PL259	S0239 PL259/Nfemale	Nfemale PL259/Nfemale	PL259 S0239/S0239
Leads	No	No	No	Yes	Yes	No	Yes
2m/440	Comet CF4160K Diamond MX72D	Comet CF4160I	Comet CF4160J MFJ 916B	Comet CF416A Comet CF530 Diamond MX72H	Comet CF416B Diamond MX72N	Comet CF416C Comet CF416W	
2m/220	C/O Dia. MX214D			Comet CF142			
HF/6 to 440				Comet CF360A			Comet CF360B
HF to 6/2m				Comet CF706A Diamond MX62M			

## TRIPLEXERS

Type	Leads	HF/6/2/440/1200	HF/6/2/440	2/220/440
Nfemale PL259/PL259/Nfemale	No	Comet CFX4310C		
S0239 PL259/PL259/PL259	Yes	Diamond MX2000	Comet CFX514	Comet CFX324A Diamond MX324
S0239 PL259/PL259/PL259	No		Comet CFX5140	Comet CFX324B C/O Diamond MX324D
Nfemale PL259/PL259/Nfemale	Yes	Diamond MX3000		
S0239 PL259/PL259/Nfemale	Yes		Comet CFX514N	
S0239 S0239/S0239/S0239	No		Comet CFX514J	



For Duplexer/Triplexer prices, see the Price Guide under each respective manufacturer.



# PolyPhaser<sup>®</sup> CORPORATION

The primary rule for protecting ham radio equipment against lightning damage is connection of all elements to a single, low impedance, ground system within the hamshack. This includes antenna, antenna support (pole, tower, etc.), and all station protectors (antenna, power, telephone, rotor, etc.).

## BROADBAND COAXIAL PROTECTORS

Hermetically-sealed gas tubes and additional components assure surge voltages and currents that are formed differentially on coaxial cable are prevented from being shared by valuable equipment. DC blocked for maximum protection. Low loss; Multi-strike capability with low strike throughput energy; Aluminum enclosure; Wide frequency range, low VSWR; Works on all equipment; Silver-center, TFE, UHF connectors; Silver shell and gold pin Type-N.

### Flange Mount (left) IS-50UX-C0

1.5-400 MHz; HF 2kW, VHF 375W, UHF 125W; UHF connector.. **\$62.99**

**IS-50UX-C1** - 50-700 MHz; VHF 375W; UHF 125W; UHF connector..... **\$62.99**

**IS-50NX-C2** - 125-1000 MHz; VHF 375W, UHF 125W/50W (low/high); Type-N connector. **\$62.99**

### Bulkhead Mount (right)

**IS-B50LU-C0** - 1.5-400 MHz; HF 2kW, VHF 375W, UHF 125W; UHF connector..... **\$65.99**

**IS-B50LU-C1** - 50-700 MHz; VHF 375W, UHF 125W; UHF connector..... **\$65.99**

**IS-B50LN-C2** - 125-1000 MHz; VHF 375W, UHF 125W/50W (low/high); Type-N conn..... **\$65.99**

## LOW INDUCTANCE COPPER STRAP

A larger surface area and lower inductance gives strap a huge advantage over wire for RF grounding and lightning protection. Cannot be fused open by lightning. Usable above or in-ground, #26 AWG thickness. Available in 1.5 or 3 in. widths and 25, 50 or 100 ft. rolls. See Price Guide for details.

## MFJ



**270 Lightning Surge Protector** - A replaceable ultra-fast gas discharge tube safely shunts up to 5000 amps peak impulse current to an independent ground. Rated to 400W PEP, usable up to 1000 MHz..... **\$29.99**



Gas-tube protection isolates equipment from damaging surges. The Gas-tube holder unscrews providing for simple replacement. Both models are weatherproof, may be bulk head mounted, or flange mounted using the included bracket. Machined construction, gold pin teflon female connectors. Rated 1600W. Dim: 2.5"l x 1" dia.

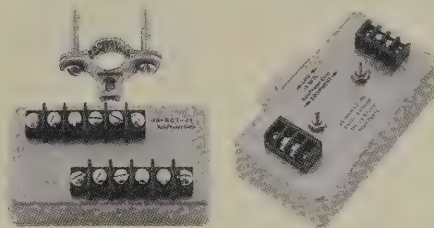
**SP-U** - UHF female connectors; DC to 600 MHz range; 0.1dB insertion loss..... **\$49.99**

**SP-N** - Type-N female connectors; DC to 2.5 GHz range; 0.2dB insertion loss..... **\$49.99**

**AP** - Replacement Gas-tube protector .... **\$9.99**

## GROUNDING PANEL

**CU-SPGP** - A heavy 0.062" copper plate mounted on 1/2" plywood. For mounting protectors and establishing the important single grounding point for all station equipment. Comes with concrete anchors, mounting screws, two rolls of 10' x 1.5" copper grounding strap and 2 copper, 18" w x 12" h, sandwich bars, 16" on-center mount..... **\$179.99**



## ROTOR CONTROL PROTECTOR

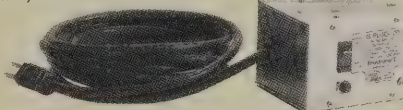
**IS-RCT** (left) - 8-wire protection for rotor box and nearby equipment. Water tight with mounting stud. Shown with optional J-1 clamp..... **\$99.99**

## IN-LINE PHONE LINE PROTECTOR

**IX-1TW** (right) - Multi-stage protection for telephone trunk lines. Handles ring voltages up to 105V, surges up to 36kA..... **Closeout \$69.99**

## POWER LINE EXTENSION PROTECTOR

In-line, multi-stage protectors provide multi-strike line protection, filtering and proper grounding for a 120V AC line. 2 grounded outlets, power switch, and circuit breaker. All aluminum grounded enclosure; 4.75" wide.



**PLDO-120US15A** - 15' cord; 120V/15A **\$169.99**  
**PLDO-120US20A** - 6' cord; 120V/20A **\$199.99**

Connecting you to the World<sup>™</sup>  
**CABLE XPERTS<sup>™</sup>**

## FLAT BRAIDED GROUND STRAP



Flat, flexible, and tinned for easy soldering. Use the 1 in. wide size for connecting tower legs or antennas to ground rods or to a central grounding point. From the central point, use separate lengths of 1/2 in. wide to connect to each piece of station equipment for best lightning protection.

**2332** - 1/2 in./10 ga., rated at 53A... per ft. **84¢**  
**2332 100** - 100 ft. roll of above..... **\$66.99**  
**235** - 1 in./7 ga., rated at 85A..... per ft. **\$1.35**  
**235 100** - 100 ft. roll of above..... **\$117.99**

## Kleinhuis ISOLATED GROUNDING BAR

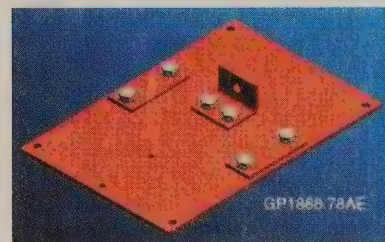
**1309 Isolated Ground Bar** - Provides additional panel, sub panel or control panel grounding points. Accepts 8 to 12 (AWG) stranded or solid copper wire. Corrosion resistant, nickel-plated, copper clamping rail. Locking protective hinged cover. UL listed, CSA approved. 600V max. Dim: 7.5" w x 1.75" h..... **\$14.99**



## GROUNDING ACCESSORIES

**GBIS18114AE** 1/8" Copper Entrance Ground Bar Kit - Installs at shack entrance, making a short connection to the ground system. Holds up to five PolyPhaser IS-50-type lightning protectors. Insulated stand-off brackets allow attaching and insulating of ground bar from mounting surface. Two HD terminal lugs and hardware included. Attach grounding wires from 1/0 stranded to #6 solid..... **\$39.99**

**GEL3AE** - Pkg. of 5 HD terminal lugs..... **\$26.99**



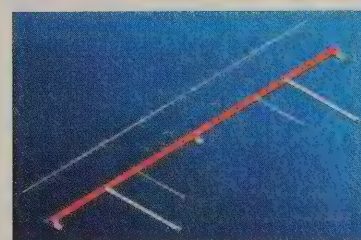
### GP1868.78AE

1/8 in. Copper Single Point Ground Panel Kit - Provides Single-Point grounding for two transceiver lines and rotor control cable.



Installs at tower base or on outside wall. Sized to fit inside a NEMA-4X style box for weather proofing. Tapped holes and hardware provided for mounting a PolyPhaser IS-RCT rotor control protector and up to two IS-50 series coaxial protectors. Sandwich plates and hardware included..... **\$76.99**

**GBX976AE** NEMA 4X Waterproof Enclosure Accepts GP1868.78AE ground panel..... **\$127.99**



**GBIS18148AE** 1/8" Copper Station Ground Bar Kit - Installs in back of operating desk. Grounds individual components to a common point preventing multiple ground paths and daisy-chains. Accepts a heavy ground conductor to be routed to station ground or entrance ground bar. Includes two heavy 12 in. straps for equipment and two light duty 1/4 in. straps for accessories, plus an extra 1/4" strap and lugs for added assemblies..... **\$83.99**

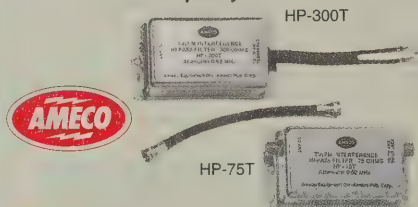


## LOW-PASS & HIGH-PASS FILTERS

For suppressing Television interference (TVI) from nearby HF transmitters

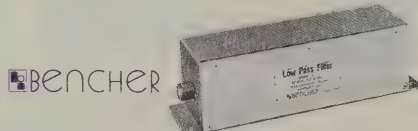
**LOW-PASS FILTERS** install in the transmission line between the transmitter and antenna or tuner. They are designed to allow signals below the cutoff frequency to pass through and attenuate signals above the cutoff frequency.

**HIGH-PASS FILTERS** install at the TV set antenna terminals and allow signals above the cut-off frequency to pass through and attenuate signals below the cutoff frequency.



**HP-300T** 300 ohm High-Pass Filter - Sharp cutoff at 52 MHz with 70dB attenuation below 50 MHz. For use with TV twinlead. **C/O \$7.99**

**HP-75T** 75 ohm High-Pass Filter - For use with 75 ohm TV coaxial cable..... **\$14.99**



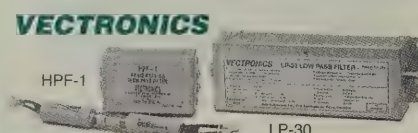
**YA-1** 52 Ohm Low-Pass Filter - Covers 1.8-29.7 MHz, handles 1.5KW continuous (5KW Peak). Ultimate attenuation: 80dB @ 54 MHz. Loss: < 0.2dB. Dim: 9.2" w x 2.5" h x 2.5" d..... **\$90.99**



**LF-30A** 52 Ohm Low-Pass Filter - Covers 1.8-30 MHz, handles 1 KW. Ultimate attenuation: >90dB above 90 MHz. Loss: <0.5dB @ 30 MHz. Dim: 9.6" w x 2" h x 1.5" d..... **\$64.99**



**704** 52 Ohm Low-Pass Filter - Covers 1.8-30 MHz, handles full legal power. Nine Chebyshev poles and Teflon® capacitors. Attenuates above 40 MHz. Insertion Loss: <0.5 dB. RF tight cabinet. Dim: 3" h x 3" w x 9" d ..... **\$49.99**



**LP-30** Low 52 Ohm Low-Pass Filter - Covers 1.8-30 MHz, handles 1.5 KW. Up to -70dB harmonic attenuation ..... **\$79.99**

**LP-2500** - Same, but 2.5KW rating.. **\$119.99**

**HPF-1** 300 ohm High-Pass Filter - High harmonic attenuation in the 52-550 MHz TV pass-band. 75 ohm balun and F connector .. **\$24.99**

**HPF-2** - Same, but deluxe version..... **\$29.99**

**Gift Certificates**  
available from all  
AES locations

## DCI DIGITAL COMMUNICATIONS



### BANDPASS FILTERS

Install in transmission line between a 2 meter, 220 or 440 MHz rig and antenna to reduce strength of out-of-band interfering signals while allowing wanted signals to pass through at full strength. Eliminate squeals, squawks, beeps and strange voices from a UHF or VHF radio caused by intermodulation from strong, nearby pagers, police radio, etc. Effectively reduces spurious emissions on transmit. Hear desired signals even in crowded, urban centers. 2M/220 MHz uses four helical resonators, 440 MHz uses four 1/4-wave linear resonators, both with aperture coupling. VSWR 1.5:1; 200W power rating; Made of extruded aluminum, copper and brass. Dim: 12w"x 3"h x 5"d; 2 lb, 11oz.

**146-4H** - 144-148 MHz. Loss <1 dB; Selectivity: -57dB @ 136 MHz and -43dB @ 156 MHz. SO-239 silver-terfon connectors..... **\$169.99**

**145-2H** - Same, but 144-146 MHz ..... **\$169.99**

**146/444DB** - 144-148 / 438-450 MHz. Selectivity: -50dB @ 136 MHz, -40dB @ 156 MHz, -30dB @ 425 MHz, -25dB @ 465 MHz. SO-239 silver-terfon connectors ..... **\$239.99**

**223.5-3H** - 222-225 MHz. Loss 1 dB; Selectivity: -33dB @ 213 MHz and -28dB @ 233 MHz. SO-239 silver-terfon connectors..... **\$169.99**

**445-10C** - 440-450 MHz. Typical selectivity: -47dB @ 425 MHz, -50dB @ 456 MHz; Loss 1dB. Type-N silver-terfon-gold connectors..... **\$189.99**

**435-10C** - Same, but 430-440 MHz ..... **\$189.99**

Upgrade to type-N connectors on 2m and 220 MHz models - add \$10 to price. Special Order

### FERRITE RFI KITS



**701** RFI Free Choke Kit - Eliminate RFI problems by winding offending cables around an RFI suppressing toroid. Effective from 0.5-200 MHz. Separates into halves for easy winding of all types of cable - computer ribbon, coax, power cord, telephone, audio-video. Halves mount in snap-together plastic frame. Multiples can be stacked for more effect..... (Pack of 4) **\$16.99**

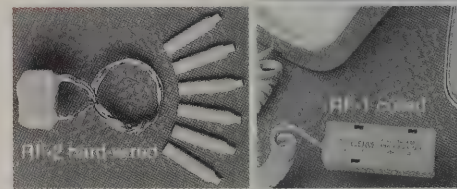
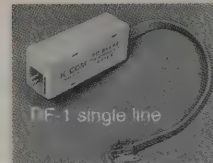
### Palomar Engineers



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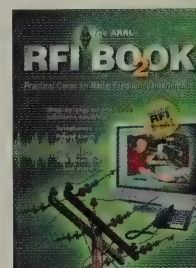
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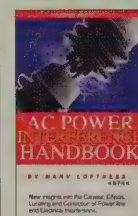
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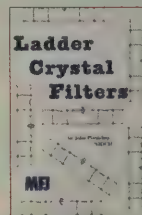
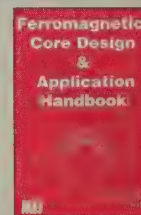
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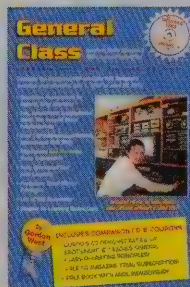
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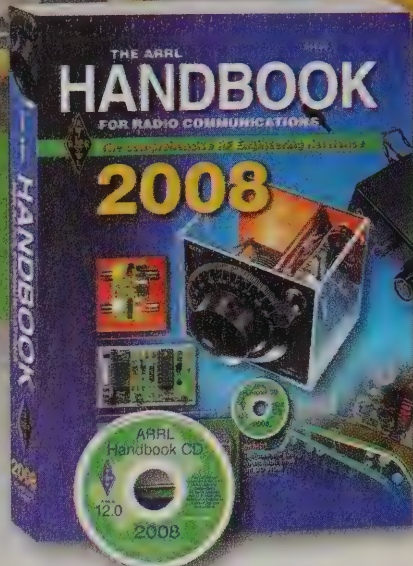
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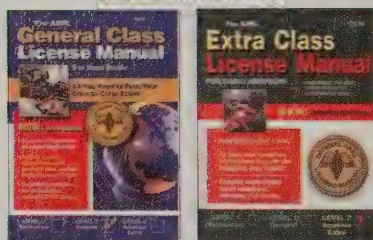
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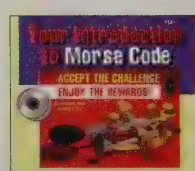


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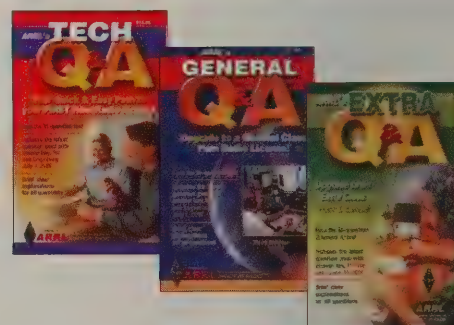


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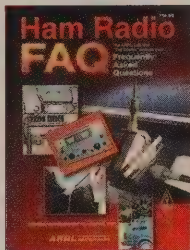
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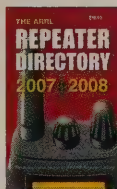
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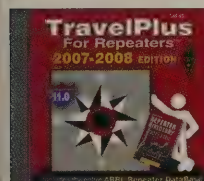
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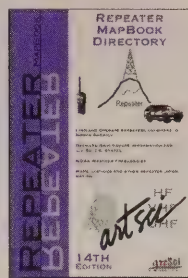
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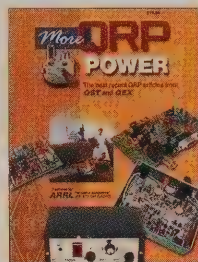


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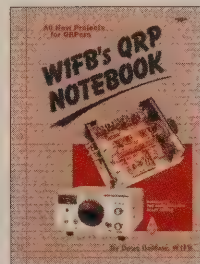
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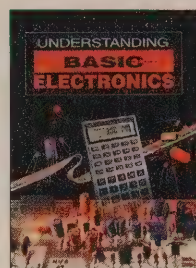
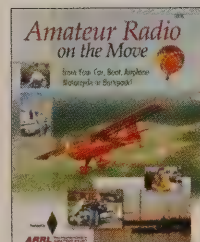
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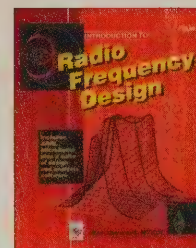
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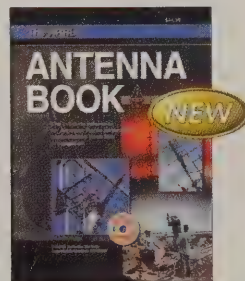
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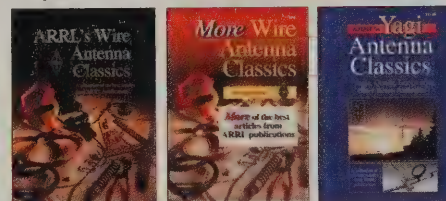
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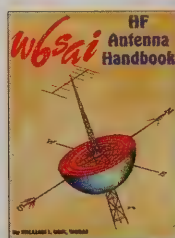
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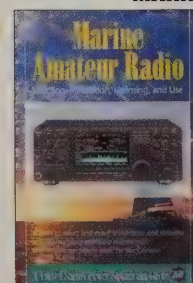
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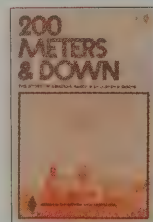
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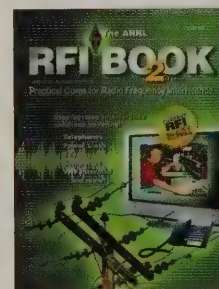
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**5765 (1980-84) • 5757 (1985-89) • 5749 (1990-94)**

**8497 (1995-99) • 9418 (2000-04)**

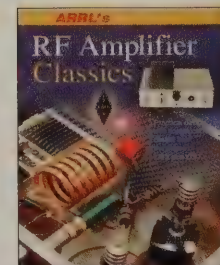


## INTERFERENCE SOLUTIONS



### ARRL RFI Book 2nd Edition

The best advice available on every type of radio frequency interference (RFI), from automotive to television, from computers to DVD players, from audio equipment to telephones. This edition also includes resources for tracking power line noise, cable television interference, and RFI solutions for other electrical devices. If it's a device that can be affected by interference you'll find practical cures in this book..**ARR 9892 \$29.95**



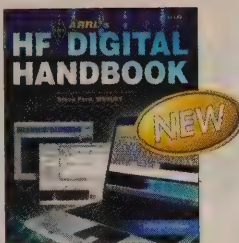
### RF POWER AMPS

**RF Amplifier Classics**  
Amplifiers for the HF, MF, VHF and Microwave bands. Practical designs and construction details for classic tube and solid-state amplifiers from 5W to 1.5kW.

**ARR 9310 \$19.95**

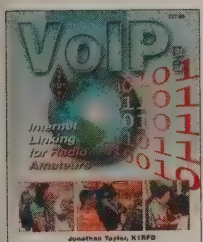


**HF Digital Handbook**  
4th Edition - Discover the wonders of RTTY, PACTOR, PACTOR II, Clover, G-TOR, Hell-schreiber, MFSK16 & PSK31. All it takes is your computer, an SSB transceiver and an HF modem, multi-mode processor or PC sound card. Learn how to assemble your own HF digital station, send/receive internet email via HF radio, and more! .. **ARR 1034 \$19.95**

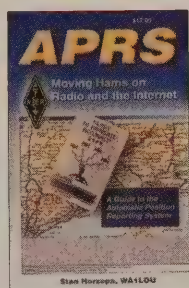


### VoIP: Internet Linking for Radio Amateurs

Growing numbers of hams are using Voice Over Internet (VoIP) Protocol in combination with radios for long-distance communication using the internet. A guide to the 4 primary VoIP systems used by hams: EchoLink, IRLP, eQSO and WIRES-II. For beginners and more advanced ..... **ARR 9264 \$17.95**

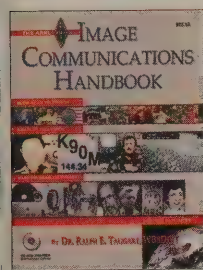


**APRS - Moving Hams on Radio and the Internet**  
Guide to the Automatic Position Reporting System. Track moving objects, display weather statistics and storm warnings, find hidden transmitters or jammers and more. Learn how to set-up and operate your APRS station with just a VHF radio and computer. **ARR 9167 \$17.95**



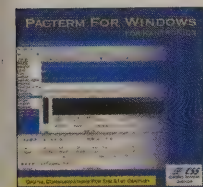
### Image Communications Handbook

Explore the possibilities of using amateur radio to see and talk with other hams! With PCs, widely available software and gear many hams already own, it's easy to enjoy imaging modes: narrow band and amateur television, slow-scan television, and weather satellite imaging (WEFAX). Includes CD-ROM ..... **ARR 8616 \$25.95**



### PkTerm 3.0 and PacTerm 3.0 for Windows CD

**Creative Services Software**  
32 bit terminal software for Kantronics, Timewave/AEA TNCs. Operate the Digital Modes: PSK-31, MFSK, MT63, SSTV, CW, RTTY, Amtor, Pactor, VHF and HF packet. Works with single or dual port TNCs or your computer's soundcard with an interface. Requires AEA/Timewave Host Mode or Kantronics TNC Hostmost for TNC interface. For Soundcard Only mode use any of the popular soundcard interfaces like the Hamhub, RIGblaster or MFJ-1275/1279 interfaces. Built-in logging feature.

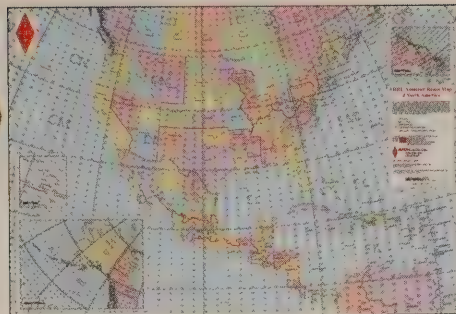
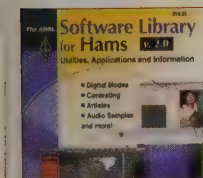


**CSS PACTERMFORWI** for Kantronics TNCs **\$99.99**  
**CSS PKTERMFORWIN** Timewave/AEA PK-12/96/232 on CDROM ..... **\$99.99**

### Software Library for Hams CD-ROM, Version 2.0.

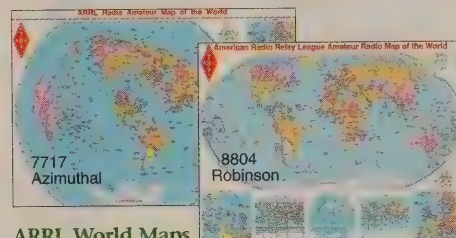
Contains software for a wide variety of ham radio applications and a selection of articles from QST magazines.

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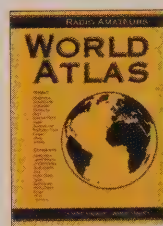
### ARRL Amateur Radio Map of North America

This large, colorful wall map features current geographic detail and labels, grid squares, call sign prefixes, boundaries and more. Great for all operators! Essential for contesters, WAS, VHF/UHF Century Club, and other award seekers. Also makes a great hurricane tracking map. Dim: 27 x 39 in., durable plastic laminated ..... **ARR 8977 \$15.00**



### ARRL World Maps

Each colorful map features current geographic detail and world-wide call sign prefixes. **Azimuthal Projection** is centered on the central USA and is useful for antenna beam headings. Dim: 27 x 39 in., laminated. **Robinson Projection** is the popularized classroom-style projection map. Dim: 26 x 34.5 in., laminated ..... **ARR 7717/8804 each \$15.00**



### Radio Amateur's World Atlas

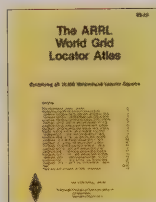
16 pages of colorful maps covering the Americas, West Indies, Asia, Japan, Australia, Pacific Ocean, Europe, Africa and Antarctica .... **ARR 5226 \$12.95**

### The ARRL

#### World Grid Locator Atlas

Information on the locator system and maps showing all 32,400 Maidenhead grid squares.

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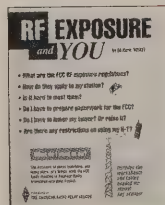


### HEALTH/SAFETY

#### RF Exposure and You

Hams must comply with the FCC RF Exposure requirements. The FCC Form 610 includes an RF safety certification that must be signed. This book tells how to meet the requirements. Over 200 tables and graphs.

**ARR 6621 \$22.95**



#### Lightning Protection and Grounding Solutions

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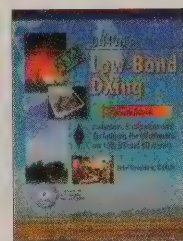


### DXing on the Edge

The Thrill of 160 Meters, by Jeff Briggs, K1ZM. Includes operating tips and descriptions for many practical antennas. Includes a CD with exotic, exciting QSOs made from prominent DX stations. Many photos and historical data from the early 30s to present .... **ARR 6354 \$29.95**

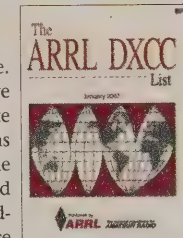
### ON4UN's Low-Band DXing

New 4th Edition - A must for DXers, contesters and casual operators who even occasionally venture onto the low bands! This book brings you the latest antennas, techniques and equipment for DXcitement on 160, 80 and 40-meters. Follow John Devoldere, ON4UN, as he presents practical information you need to operate a highly successful station on the low bands. Includes the fully searchable book on CD-ROM ..... **ARR 9140 \$39.95**



### The ARRL DXCC List

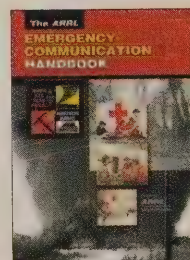
**JANUARY 2007 Edition**  
The Official DXCC source. Record the entities you've worked and QSLed. Complete listing of DXCC rules. Contains data about each entity on the DXCC List, deleted entities and the latest additions. Also included are the prefix cross-reference and list of international callsign series. Award descriptions and information about obtaining numerous DXCC items also featured. .... **ARR 9833 \$5.95**



### EMERGENCY COMMUNICATIONS

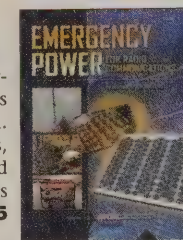
#### The ARRL Emergency Communication Handbook

Intended for all hams that volunteer their skills in public service applications (or who are interested in doing so). Includes details on basic emergency communication skills, message handling, and more. Understand what to expect and what to take along. This book covers the Amateur Radio Emergency Communications Course (Level 1) manual but adds additional material ..... **ARR 9388 \$19.95**



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Explore electric power generation from charging batteries to keeping the lights on. Solar Power Controllers, Generators (Gas, Wind and Water), Inverters, Instruments & Safety .. **ARR 9531 \$19.95**



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No more hunting through flea markets, calling multiple dealers, or photo copying a neighbor's. You can get most instruction and maintenance manuals directly from the manufacturers' websites.

- [www.alinco.com](http://www.alinco.com)
- [www.icomamerica.com](http://www.icomamerica.com)
- [www.kenwood.net](http://www.kenwood.net)
- [www.yaesu.com](http://www.yaesu.com)



## CALL SIGN LOOK-UP ON CD

### Buckmaster HamCall CD

Over 1.5 million listings by name, address, county, country and license class. Displays license issue date, expiration, previous call and class, area code, e-mail, URL, county, time zone, latitude/longitude, grid square, beam heading and long/short path distance. PC DOS and Windows (3.1, 95, 98, XP) compatible; Extensive international listings; Label printing; 4,000+ photos and QSL cards; Interfaces with most logging programs..... **BUC HAMCALL \$50.99**



### QRZ Ham Radio CD



Volume 29, Summer 07. 1,250,000 names, call signs and addresses of world-wide amateurs. Latest FCC call signs with over 232,000 e-mail addresses. Includes country names for calls; 12,000+ QSL cards; Built-in text editor; 17-button multi-function toolbar; Auto storage of personal data; Auto QSL card generator; User customizable display; Multi-page printing and Multi-hit retrieval Supports Windows OS..... **WAL HAMQRZ \$24.99**

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### Satellite Anthology 5th edition

A compilation of QST articles dealing with satellites like Amsat-Oscars 10 and 13, Russian RS series and the Microsats.

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### Radio Amateur's Satellite Handbook

A comprehensive book written about amateur satellites from setting up a station and choosing the right antenna to tracking. Regardless of your level of experience with ham satellites, you'll find what you're looking for in this book.

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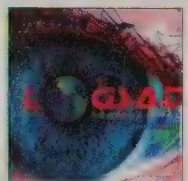
### ARRL Weather Satellite Handbook

Types of satellites currently in orbit and how they operate. How to buy or build receivers and antennas. How to build an interface to view images received from satellites or shortwave WEFAX on a PC.

**ARR 4483 \$20.00**

### LOGSAT PRO Satellite Tracking Software, V5.2

Track hundreds of satellites in dozens of windows. Kansas Features: Kansas City Tracker support; Complete multi-tasking; Unlimited open satellite windows at the same time; Voice alarms when satellite window becomes visible; 5 map projections; 3D antenna radiation diagrams can be displayed; Online help; The Satellite Encyclopedia. Requires Windows® OS, 286 or better processor, 4MB RAM, 15MB disk space, PC sound card with speakers..... **LOG LOGSATPRO \$69.99**

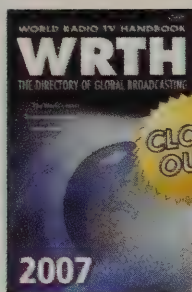


## RADIO/TV RECEPTION GUIDES

### 2007 World Radio TV Handbook

The world's most comprehensive and up-to-date reception guide to mediumwave, shortwave and FM broadcasting for the serious radio listener. Informational articles, operating hints and latest product reviews.

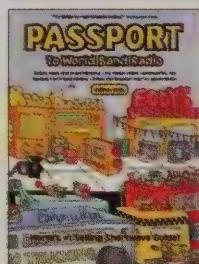
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Everything you need to know about tuning in shortwave stations, countries, frequencies and times. Includes informative reviews on popular world-band radios, many antennas, and expanded station address lists. 592 pages.

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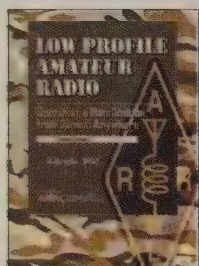


## GENERAL / MISC INFORMATION

### Low Profile Amateur Radio, 2nd Edition

Operate your station under restrictive situations. Discussions and details for many real-life examples and techniques for a variety of low profile circumstances. Covenants, Conditions and Restrictions; Low-Profile and Disguised Antennas; Indoor Antennas; Operating Modes and Tips; Interference; Antenna Tuners; Low-Profile VHF/UHF Antennas; Mobile Operating.

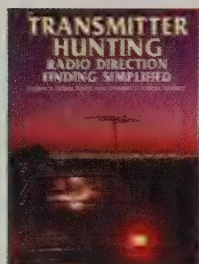
**ARR 9744 \$19.95**



### Transmitter Hunting

Practical and fun! Locate radio frequency jammers, other malicious interference and downed aircraft. Do "T-hunting," "Fox Hunts" and help search/rescue. Getting started, equipping a vehicle, hunting techniques, antennas, RDF skills and more.

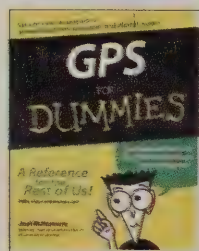
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### GPS for Dummies

Make the most of your portable GPS gadget and all its amazing features. Pick the right receiver for you, create a map from your front door to the relatives six states away, venture into new places with confidence, explore the treasure hunting sport of GEOCACHING.

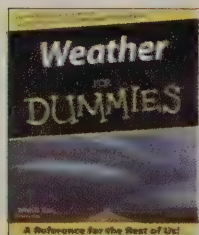
**WIE GPSDUMMIES \$21.99**



### Weather for Dummies

Easy-to-understand explanations about meteorological concepts, from storms, jet streams, tornadoes and El Niño. Experiments and activities you can do at home. Plus insight on smog and the greenhouse effect.

**WIE WXFORDUMMIES \$21.99**



## GENERAL / MISC INFORMATION

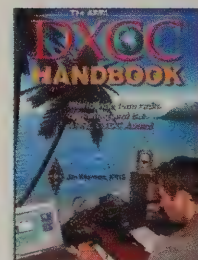


### Pocket REF, 3rd Edition

A handy pocket-sized reference containing 768 pages packed full of tables, maps, formulas, constants and conversions. A concise all-purpose guide covering chemistry, physics, electrical, electronic formulas, math, metric conversion, mechanical data, hardware, mapping, world wide telephone area codes, tools, currency, metals, weights, perpetual calendar, science, and more..... **SEQ POCKETREF \$12.99**

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A concise PC reference book with hard to find information and a 3700 name PC Industry phone book. Plus: Troubleshooting; Wiring; Connectors and Pinouts; Commands for WinXP/2000/UNIX; Startup Programs and Processes; Network Wiring and Standards; File Name Extensions; Over 1,000 acronyms and definitions; CPU Processor Specs and ID; Configurations and Updates for 1000's of Hard CD-ROM, Magneto Optical, Tape and Floppy Drives; Audio, POST and HTTP Error Codes; DOS Commands; ASCII Codes/Numerics; PC phone; Country domain names, more! ..... **SEQ POCKETPCREF \$15.99**



### ARRL DXCC Handbook

DX in ham radio means distance. Many radio amateurs enjoy the lure of DXing - seeing how far or how many countries they can work. It's a way of determining how well our stations and we the operators can perform. DXing is a full time goal for some hams and a just-for-

fun challenge for others. The pinnacle of DXing success is the ARRL DX Century Club, or DXCC award. The purpose of this book is to will inspire you to try DXing, and that you'll use it as a guide to beginning your DX journey. Chapters: DXing and the DXCC Award; Listen!; The DX'ers Toolkit; The DX'ers Shack; SSB, CW, RTTY, or ...?; Working Pileups; Propagation; Real-World Antennas; Contesting for DX'ers; Getting the QSLs; Applying for the DXCC and Other Awards; DXCC Rules; The Logbook of the World (LoTW). **ARR 9884 \$19.95**

## MEJ Publications

<b>30</b> Golden Classics of Yesteryear .....	<b>\$14.95</b>
<b>33</b> Modern Amateur's Mobile Handbook .....	<b>\$14.95</b>
<b>36</b> Shortwave Listener's Guide.....	<b>\$12.95</b>
<b>37</b> Ham Radio Communications Circuit files ..	<b>\$12.95</b>
<b>38</b> Easy-Up Antennas.....	<b>\$19.95</b>
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<b>3507</b> Practical RF Design Manual.....	<b>\$19.95</b>
<b>3509</b> Ladder Crystal Filters.....	<b>\$19.95</b>

## Current issues of Monthly Magazines

CQ Magazine .....	<b>CQX CQ \$5.99</b>
Electric Radio .....	<b>ELE CTRICRADIO \$3.75</b>
Monitoring Times .....	<b>GRV MONITORTIMES \$5.95</b>
Nuts & Volts .....	<b>NUT NUTS&amp;VOLTS \$5.50</b>
Popular Communications.....	<b>CQX POPCOMM \$4.99</b>
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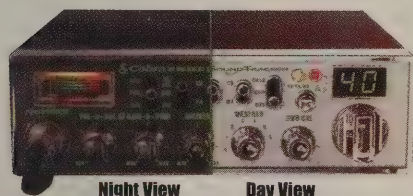
**19DX IV** Compact 40 channel Mobile CB Radio  
New compact design; Full function LCD display;  
Instant channel 9/19; RF gain/squelch control;  
Combination S/Rf meter; Channel Indicator; TX  
indicator; CB/PA switch; Mobile bracket.  
Dim: 4.5"w x 1.75"h x 7.25"d; 2.1 lbs ..... **\$49.99**



**25LTD** AM Mobile CB Radio – 40 channels; 4W RF  
output; Adjustable Dynamike boost; Instant chan-  
nel 9; RF gain control; Switchable noise blanker;  
Dimmer; CB/ANL/PA switch; RX/TX LED; Tactile  
controls. Dim: 8.6"d x 6.3"w x 2.2"h; 4 lbs **\$89.99**

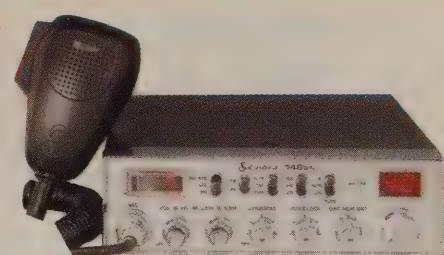
**25WXNW ST** AM Mobile CB Radio – Same as LTD  
but with NightWatch™ & Weather ..... **\$109.99**

**29LTD** AM Mobile CB Radio – Same look and  
basic features as the 25LTD but includes: Delta tune;  
Switchable ANL/Noise blanker; CB/PA switch;  
Antenna warning LED indicators; S/Rf/SWR meter.  
Dim: 8.6"d x 6.2"w x 2.2"h; 4 lbs ..... **\$99.99**



**29NW** AM Mobile CB Radio – Same look and  
basic features as the 29LTD but no Delta tune;  
Includes NightWatch™ fully illuminated display;  
Variable dim control; Tone control; Instant channel  
9/19. Dim: 8.6"d x 6.3"w x 2.2"h, 4 lbs .. **\$119.99**

**29WXNW ST** AM Mobile CB Radio – Same look  
and basic features as the 29NW but: has  
SoundTracker™ system, 7 NOAA weather channels  
with Weather Alert tone ..... **\$129.99**



**148GTL** 40 channel AM/SSB CB Radio – Full fea-  
tured, 4 full Watts (AM) and 12W (SSB) RF power.  
Dual conversion AM receive; Adjustable Dynamike;  
Illuminated S/Rf/SWR meter; Switchable ANL/NB;  
PA capability; three-position tone switch; 2-color  
RX/TX indicator; Digital LED readout; PA.  
Dim: 2.3"h x 7.8"w x 9.2"d; 5 lbs ..... **\$149.99**



**HH-ROAD TRIP** 40 Channel CB  
Handheld – Keep in vehicle for  
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weather information. SoundTracker®  
system cuts noise up to 90% and 4W  
of power gives up to 4 miles range.  
High/low power switch. Operates on  
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vehicle battery with the included DC  
cord and plug. Includes magnet  
mount mobile antenna.  
Dim: 6.75"h x 2"w x 1.75"d **\$79.99**

**75WX ST** Compact/Remote  
CB Radio – 40 CB channels and  
10 Weather channels. A remote  
box installs out of sight and  
connects to the microphone  
with controls and full featured  
LCD display. Dual watch and  
full channel scan; Instant chan-  
nel 9; Four memory channels;  
Key lock. Dim: 4.2"h x 2.7"h x  
1.8"d; 1.85 lbs ..... **\$99.99**



## MICROPHONE



**HGM-77** Noise Cancelling  
Microphone – Designed for  
CB users who want to step  
up from their stock micro-  
phone. Features 9' High-  
Flex™ cord, Wire mesh  
grille, Heavy-duty ABS shell  
and 4-pin connector **\$24.99**

## RECOMMENDED CB ANTENNAS

### COBRA

**HGA-1000** – Base loaded magnet mount mobile  
antenna with coax and connector ..... **\$19.99**

### HUSTLER

**HQT** – A 55 in. top loaded whip with Mirror  
Mount bracket. Comes with 12 ft. cable with PL-  
259 connector. Chrome with a white coil. **\$29.99**

**HQ-27M** – A 55 in. top loaded whip with Trunk-lip  
Mount. Comes with 15 ft. cable and PL-259 con-  
nector. Chrome with a white coil. .... **\$39.99**

**1C-100** – 44 in. base loaded magnet mount anten-  
na (white color) ..... **\$23.99**

**1C-11B** – 42 in. base loaded trunk mount antenna  
(black color) ..... **\$14.99**

### LARSEN

**NMO-27C** – Base loaded mobile, less mt. **\$32.99**

**NMO-TLP** – Low-profile trunk mount for the  
NMO-27C. 17 ft. coax and PL-259 ..... **\$29.99**

**NMO-MMR** – Magnet mount for NMO-27C.  
Comes w/12 ft. coax & PL-259 ..... **\$32.99**

### MIDLAND

**18-258** – Through Window Mount Mobile CB  
Antenna. Power transfers thru-the-glass to outside  
element without wires. Overall length: 25-1/4 in.  
Includes coax & SO-239 connector ..... **\$19.99**

### SOLARCON

**A-99** – Base Antenna. Three-piece fiberglass design  
uses a 1/2-wave over a 1/4-wave section. Tunable,  
3dB gain. Length: 17 ft. 8 in. .... **\$79.99**

**GPX-1** – Ground plane kit for the Solarcon A-99  
antenna. Adds 30% more power gain and pro-  
duces a lower angle of radiation ..... **\$59.99**

### WILSON

**W-1000** – 5 ft. base loaded mobile antenna.  
Available in three mount configurations. All come  
with 18 ft. cable and PL-259 connector.

**ROOF** – thru-hole mount ..... **\$59.99**

**TRUNK** – mount ..... **\$66.99**

**MAGNET** – mount ..... **\$76.99**

**LITTLE WIL** – 38 in. base loaded magnet mount  
antenna ..... **\$39.99**

## uniden CB RADIOS



**PC-68XL** 40-Channel CB Radio – Front micro-  
phone jack; Backlit controls; S/Rf meter; Channel  
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tor; Instant channel 9; RF and microphone gain; PA  
mode. Dim: 7.6"w x 8.9"d x 2.6"h; 3 lbs ... **\$74.99**

**PC-68LTW** – Same basic features as the PC68XL  
but with NOAA weather and alert ..... **\$79.99**



**PC-78XL** 40 Channel AM Mobile – PLL synthe-  
sized; Instant channel 9; Dynamic Squelch Control;  
Microphone and RF gain; Delta tune; Noise blanker;  
Automatic noise limiter; PA/CB switch; Dimmer  
control; TX/RX LEDs; Antenna warning LED  
Dim: 7.25"w x 8.63"d x 2.38"h; 4 lbs. 3 oz. **\$94.99**

**PC-78LTW** – Same basic features as the PC78XL  
but with NOAA weather and alert ..... **\$99.99**



**PC-78 ELITE** 40-Channel CB with Ergonomic  
Pistol Grip Microphone – Combines CB and a 7  
channel Weather Radio with alert. Enhanced night  
vision display; Instant Channel 9; S/Rf/SWR meter;  
RF and microphone gain; Delta tune. Switches for:  
S/Rf/CAL/SWR, CB/WX/PA, NB/ANL, dimmer and  
dynamic squelch control.

Dim: 7.6"w x 8.9"d x 2.6"h; 4 lbs. 3 oz ... **\$119.99**

**PC-68 ELITE** 40-Channel CB – Same looks and  
features as PC-78 Elite but no Delta tune and SWR.  
Dim: 6.2"w x 5.4"d x 2.1"h; 3 lbs. 11 oz ... **\$99.99**

### PRO-538W

### PRO-510XL PRO-520XL



**PRO-510XL** Compact 40 Channel AM Mobile  
Incorporates state-of-the-art microelectronics into a  
sophisticated Euro-styled 2-way CB unit. Front  
mounted microphone, ANL Switch, S/Rf LED  
meter. Dim: 4.5"w x 1.4"h x 7.5"d; 3 lbs.... **\$39.99**

**PRO-520XL** Compact 40 Channel AM Mobile  
Looks like 510XL. Instant channel 9 access; 4-seg-  
ment S/Rf meter; TX LED; LED channel indicator;  
RF gain; PA switch; Automatic noise limiter.  
Dim: 4.5"w x 6.8"d x 1.38"d; 1 lbs. 10 oz .. **\$54.99**

**PRO-538W** 40 Channel AM Mobile – Includes 3  
weather channels. RF gain control; PA/CB switch;  
Instant channel 19; TX/RX indicator; Front speaker.  
Dim: 6.8"h x 2"w x 8.3"d; 2.6 lbs ..... **\$59.99**



Price Guide  
Used / Demo

Ham Radios

Ham Radio  
Accessories

Antenna  
Accessories

Publications

Other  
Radios

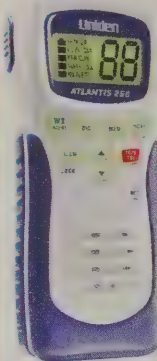
Weather  
& GPS

Audio / Video  
& Tools

AES  
Information

# uniden

## MARINE RADIOS



**ATLANTIS-250** Handheld 2-Way VHF Marine Radio All US, international and Canadian marine channels. Durable, reliable for any marine activity. Waterproof (JIS4/CFR46 rating); 5/1W, switchable; Instant channel 16/9; Triple watch; All N.O.A.A. channels with Weather Alert; Backlit LCD and keypad; Memory channel scan; Flexible rubber antenna; NiMH and alkaline capability ..... **\$99.99**

**VOYAGER** Ultra Compact VHF Handheld Marine Radio - All USA, Canadian and international channels; All N.O.A.A. channels with S.A.M.E. WX alert; Triple Watch Plus™; Channel 16/9; Memory scan; 1/5W transmit; Backlit keypad and LCD; Rubber grips and seal; Flexible antenna. Meets JIS7 waterproof specifications. Comes with rechargeable Li-ion battery; AC/DC adapter and charging cradle. Dim: 3.8"h x 2.4"w x 1.3"d; 8.8 oz. **\$169.99**



**MHS-350** Handheld Marine 2-Way VHF Radio - All USA/international and Canadian marine channels All N.O.A.A. weather channels with weather alert; S.A.M.E. (during a NOAA weather or emergency alert, a code will alert you to severe conditions in your immediate area); 1/5W output; Triple Watch Plus™ (monitor channel 16/9, another user selectable channel, plus WX alert); Large backlit LCD; Rubber grips and seal. Meets JIS7 waterproof specifications ..... **\$149.99**



**SOLARA-DSC** 25W VHF Marine Radio - Full-featured, now includes DSC. All USA/ international channels; Instant channel 16; 10 weather channels; Selectable 1/25W output; High visibility LED display; Front mounted speaker for improved sound quality; Transmit LED indicator; Weather resistant housing, microphone and connector ..... **\$99.99**



**OCEANUS-DSC** Full Featured VHF Marine Radio - Ultra-compact, rugged construction saves space, allows for convenient mounting, and withstands the harshest conditions. All USA/international/Canadian marine channels, N.O.A.A. weather with scan and alert. Triple Watch Plus™ - monitor emergency channel 16 and 9, another user selectable channel plus weather alert; Quik Command™ one-touch channel 16/9 key on the durable, rubber grip microphone; Backlit keypad; Memory scan; 1 or 25W transmit; LCD and dimmer; External speaker jack; One switch PA operation..... **\$139.99**



**UM-525** 25W Marine VHF Radio with Loud Hailer - All USA/International and Canadian marine channels. Programmable scan and Triple Watch Plus™ emergency channel monitoring and NOAA emergency/weather alert with S.A.M.E. Bright 3 in. (diagonal) backlit LCD display; Built-in 30W loud hailer with intercom, PA and all preprogrammed fog signals; GPS intuitive; Scrambler capable; Class-D DSC with DSC polling capabilities; Speaker microphone with one-touch channel 16/9 key and up/down channel select ..... **\$199.99**

**UM-625C** 25W VHF Marine Radio with Loud Hailer - All USA/International and Canadian marine channels. Programmable scan and Triple Watch Plus™ emergency channel monitoring; and NOAA weather alert with S.A.M.E. Bright 2.2 in. (diagonal) daylight viewable Color TFT display that is viewable from any angle in sunlight. Rugged construction and highest rated receiver performance (85dB intermod nom.); built-in 30W loud hailer with intercom, PA and all pre-programmed fog signals; GPS intuitive; Scrambler capable; Class-D DSC with all DSC polling capabilities; Speaker mic. with one-touch channel 16/9 key and up/down channel select ..... **\$299.99**

**ICOM**  
MARINE  
RADIO



**IC-M72** Marine VHF Handheld More Power, now 6 Watts; Covers All International, USA, Canadian and Weather channels; Auto scan function (starts when no signal received) Auto WX scan and WX Alert function; Instant channel 9 & 16; Simple add/delete TAG scanning; Wide Angle backlit LCD; Battery life indicator and auto power saver; Submersible 4.9 ft for 30 minutes. Large capacity 2000mAh Lithium-Ion Battery. Impressive audio. Includes desktop charger, AC adapter, antenna, belt clip and hand strap. Dim: 2.06"w x 4.90"h x 1.8"d; 9.9 oz ..... **\$199.99**

Shakespeare®

4187

## MARINE ANTENNAS

**4187** Ratchet Mount - Stainless steel. 4-way ratchet design with handle for deck or bulkhead mounting. Standard 1 in. x 14 male threads..... **\$39.99**

**396-1** Center-fed 1/2-wave Coaxial Sleeve Antenna - A Basic one-section, 5 ft., 3dB antenna designed to reduce signal fading when working in rough seas. Widely used by the Coast Guard. Rated for 50W and 5 MHz bandwidth. Shakespeare white fiberglass; Brass and copper elements; Deluxe chrome-plated brass ferrule; 15 ft. RG-58 cable with PL-259. Use 4187 ratchet mount..... **\$89.99**

**420** Skipper™ Center-fed 1/2 Wave Coaxial Sleeve Antenna - Economical, a good basic one-section, 5 ft. 3dB antenna for steady, day-to-day cruising in calm to moderate seas. Includes a polycarbonate lift/lay deck mount, leveling plate and hardware. Rated 50W and 5 MHz bandwidth. White Shakespeare fiberglass; Brass/copper elements; Polycarb ferrule; 15 ft. RG-58 cable with PL-259... **\$84.99**

**5101** Centennial™ End-fed Antenna with Matching Stub - High-end features in an 8 ft. antenna with a brass element and a smooth, high gloss, polyurethane finish that won't turn yellow in the sun. Rated 50W, 5 MHz bandwidth with 6dB gain. One section; Brass and copper elements; Chrome-plated brass ferrule with standard 1 in. x 14 thread. Includes 15 ft. RG-58 cable with PL-259 connector. Use with 4187 ratchet mount ..... **\$69.99**

**5206-C** End-fed Antenna, Matching Stub - Economical, lightweight and self-supporting. An 8 ft. one-section antenna for good communications where long range is not the predominant factor. Rated 50W, 3 MHz bandwidth and 6dB gain. White Shakespeare fiberglass; Chrome-plated brass ferrule; DC grounded. With 15 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount ..... **\$59.99**

**5202** Collinear-phased 5/8 Wave Elements - A rugged, professional quality 8 ft. one-section antenna featuring a heavier duty radome and tough brass and copper construction for maximum efficiency and extra range. Rated 50W, 3 MHz bandwidth and 6dB gain, DC grounded. White Shakespeare fiberglass; Chrome-plated brass ferrule; DC grounded. With 20 ft. RG-58 cable with PL-259. Use with 4187 ratchet mount .. **\$109.99**

**5215** Squatty Body™ VHF Marine Antenna - A favorite with Sailboat owners, this light weight, low profile, stainless steel antenna was specially designed for masthead mounting. One-section, end fed 1/2-wave, 36 in. long. Rated 50W, 7 MHz bandwidth and 3dB gain. It features a hermetically sealed, tin-plated copper wire coil, stainless steel body and whip. SO-239 connector and stainless steel "L" bracket mount..... **\$49.99**



## AIRCRAFT RADIOS

ICOM

### A-24 Airband Handheld

Easy to operate featuring a large, clear LCD. The large keypad provides user friendly operation. Stores the last 10 channels used and is easy to recall those channels by pushing the "flip-flop" recall buttons. The DVOR mode shows the radial to or from a VOR station and the CDI mode shows the course deviation to/from a VOR station. ANL (auto noise limiter) for noise reduction. RX: 108-136.975 MHz, WX: 161.650-163.275 MHz, TX: 118-136.975 MHz, Output power: 5W PEP, 1.5W carrier. Dedicated 121.5 MHz emergency key. NOAA marine weather channels. Record and play back conversations with the built-in recorder. Convenient for carrying with supplied belt clip. Water resistant, IPX-4 grade, allows safe operation in rain. 200 alphanumeric memories; PC programmable. Includes 7.2V 1650mAh battery. Dim: 2.1" w x 5.1" h x 1.4" d; 15.2 oz ... **\$319.99**



YAESU

### VXA-710 Airband Handheld

VOR and CDI display with OBS on NAV. RX: Airband 108-137 MHz, NAV 108-118 MHz, FM broadcast 88-108 MHz, US BRS band with CTCSS/DCS, NOAA weather with NOAA severe weather alert. Full 5W TX output power (1.5W carrier); 160 memory channels; Large, bright screen with signal strength indicator. Multi-color strobe LED for status indication and emergency light. Totally waterproof and submersible. Includes Li-ion battery pack, wall charger, antenna, and headset cable. Dim: 2.25" w x 3.75" h x 1.25" d, 9.9 oz. .... **\$359.99**



## FRS/GMRS RADIOS

**FRS RADIO** No license required – perfect communications for Sportsman, Families, Clubs, Hobbies, Boating, Camping, Fishing, Hunting.

**GMRS RADIO** License required – immediate family members are eligible to operate under the license. Others (your employees, friends, associates, etc.) must each obtain a license before they can operate in the GMRS, even if they are just operating one of your own radios.

MIDLAND

### GXT-650VP4 FRS/GMRS



Handhelds – 22 channels (7 FRS/GMRS, 7 FRS and 8 GMRS) and including Weather Alert Radio with automatic alert for severe weather and hazard information, 24/7. Maximum FCC allowable 5 Watts of power for up to 16 mile range in open areas with little or no obstructions. Selectable Hi/Med or Low power settings. 121 Privacy Codes and 5 Call tones; Animal Call Sounds for Deer, Turkey, Goose, Owl and Duck; Backlit Display; eVOX; Vibrating Alert; Channel Scan; Silent operation turns off tone for quiet operation; (Auto) Squelch; Keypad Lock; Monitor; Microphone and Headphone Jacks; Water Resistant; Auto Battery Save; Battery Low Indicator; Roger Beep. Operates on 4 "AA" batteries (not included). Dim: 4.12" h x 2.37" w x 1.37" d. Pair of Radios including Microphone Headset ..... **\$79.99**

ICOM

### IC-F21GM FRS/GMRS Radio



15 channels, 7 shared FRS channels. Power: 4W with range up to 5 miles depending on operating environment. All channels are pre-programmed allowing out-of-box operation, only a simple license required. Dim: 2.1" w x 5" h x 1.5" d, 10.6 oz. .... each **\$129.99**

In addition to using the various protection devices from AES, Alpha Delta, MFJ, Harger and Polyphaser be sure to add the safety and security of good grounding to your ham station. A good ground system will aid in giving your equipment protection from stray voltage, lightning, RF and other energy surges. You'll have reduced noise, increased antenna system efficiency and less in-home audio and TV interference too.

### Everything At Same Ground Potential

All your equipment (antennas, towers, transmission lines, rotor controls, power supplies, transceivers, etc.) and the utility services (such as electric, telephone, and cable TV) should share a common, single ground point. The best location is where the cables enter the building, and where you can make a short connection to an outside ground rod system. Ideally, there should only be one path from any point to that ground system. Multiple paths can cause ground loops that can direct the energy from a surge or lightning impulse through your ham equipment, house wiring, appliances, etc.

### Use Low Impedance Grounding Conductors

Your ground connection may check out with an ohmmeter, and be adequate for a safety ground, but it may prove to be very poor during a lightning event. Lightning generates a substantial energy component well into the VHF/UHF regions where a small diameter conductor can act like a choke and appear as an open circuit for the strike energy seeking ground.

Flat copper strap is the best conductor to use for grounding because it has a greater surface area to provide a low impedance path. Flat tinned copper braid, which is more flexible is also very good, and the next best is large diameter copper wire (#6 or larger).

Connect all grounds (power line entrance panel, transmission line, telephone line and cable TV), to a single, common grounding point.

### Don't take a Chance – Disconnect

Even if you have installed the available protection devices, design your station for quick and easy access to electrical outlets and antenna feed lines. If you have advanced warning of a thunderstorm moving through your area, make it a rule to completely isolate your equipment by unplugging the AC line cords and disconnecting and grounding all feed lines, control and rotator cables.



CUSHCRAFT CORPORATION

Laird TECHNOLOGIES

### Two New Models!

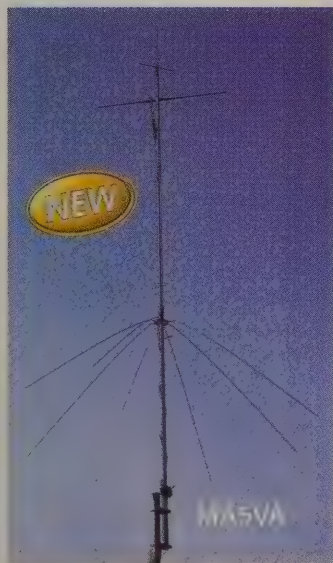
**MA5VA High Performance, HF Multiband Vertical** – Ideal for temporary or portable 5-band operation. The antenna offers 5 band coverage from 10–20 meters and is ruggedly constructed, easy to install and just about invisible against the sky. The design does not require radials and the antenna can be dismounted quickly, making it the perfect choice for patio's, small backyards, condominium and townhouse balconies or any other environment where permanent antenna use is governed by covenant or other rules. .... **\$259.99**

• 20, 17, 15, 12 & 10 Meters • Gain: 1-2dBi • Height: 14.7 ft. • Mast size: 1.25-2 in. • Maximum Power Handling: 250W SSB • Wind Surface Area: 0.82ft sq. ft. • Wind Survival: >80 mph • VSWR: 1.2:1 all bands • Weight: 6.5 lbs

**MA6VA Six-Band Restricted-Space Vertical Antenna** – Provides the same great versatility and performance as the MA5V but with 6 Meters added..... **\$319.99**

• 20, 17, 15, 12, 10 & 6 Meters • Gain: 1-2dBi • Height: 14.7 ft. • Mast size: 1.25-2 in. • Maximum Power Handling: 250W SSB • Wind Surface Area: 0.82ft sq. ft. • Wind Survival: >80 mph • VSWR: 1.2:1 all bands • Weight: 6.6 lbs

More Cushcraft Antennas In Stock  
See the Price Guide





News as it happens! Tune in Police, Fire, Public Service, Ham Radio, Military, Weather, Racing and more! A selection of Handhelds, Base/Mobiles to fit your needs.

## uniden Bearcat Compact Handheld Scanners



**BC-72XLT Compact Handheld Scanner** (Great for NASCAR) – 100 Channels/10 Banks; Covers the most interesting "action" bands where you can hear Police, Ambulance, Fire, Amateur Radio, Public Utilities, Weather, and more! Covers 25-54, 108-174, 406-512 MHz; 10 Programmable Search Ranges find unlisted frequencies in use in your area; 6 Preprogrammed Service Searches preset in separate Police, Fire/Emergency, Aircraft, Ham, Marine (by channel) and Weather banks to make it easy to locate specific types of calls; Close Call™ RF Capture Technology instantly tunes to signals from nearby transmitters; Backlit Display for low light Conditions; Priority Scan to scan the channels you have designated as priority channels; Delay helps prevent missed replies during 2-way conversations; 2 AA battery operation: Alkaline or rechargeable (charges while in the scanner). Dim: 2.75" w x 4.5" h x 1.75" d; 6 oz. .... **\$99.99**

**BC-95XLT Handheld Scanner with 800MHz Coverage** – 200 Channels/10 Banks; Covers the "action" bands 25-54, 108-174, 406-512, 806-956 (excluding Cellular); 10 Programmable Search Ranges; 6 Preprogrammed Service Searches; Close Call™ RF Capture Technology; Priority Scan; Delay; Backlit Display. Dim: 2.75" w x 4.5" h x 1.25" d; 6 oz. .... **\$119.99**

**BC-246T Handheld Scanner** – 1600 Channels typical/2500 maximum; TrunkTracker III Technology (Motorola, EDACS and LTR systems); Covers 25-54, 108-174, 216-225, 400-512, 806-956 & 1240-1300 MHz (excluding Cellular); Dynamically Allocated Channel Memory makes it easier to program and use without wasting channels; Close Call™ RF Capture Technology; Alpha Tagging for Systems, Channel Groups, Channels, Search Ranges, and SAME Groups; S.A.M.E. Weather Alert (Specific Area Message Encoding) – during a NOAA Weather or Emergency Alert, a code for your specific location will alert you to severe conditions in your immediate area; 10 Custom Search Ranges; Preprogrammed Service Searches; Automatic Repeater Reverse automatically tunes to the Repeater Output Frequency when it finds a transmission on a common Input frequency; DCS/CTCSS; Rapid Decode instantly detects and displays the Subaudible Tone; Pager Skip eliminates transmissions on common pager frequencies during Search and Close Call Operation; Channel Alert indicates when specified channels become active; Backlit Display adjustable to turn on when Squelch opens, or any key is pressed (or Manually); PC Control: includes a PC Cable to transfer information from your computer to scanner. Dim: 2.5" w x 4.5" h x 1.75" d; 6 oz. .... **\$229.99**

**BCD-396T Compact Scanner** – Continuous Band Coverage 25 MHz to 1.3 GHz (excluding UHF TV and Cellular); 6000 Dynamically Allocated channels; 400 cities preprogrammed; TrunkTracker IV (Motorola APCO 25 Digital, Motorola, EDACS, LTR); Close Call™ RF Capture Technology; S.A.M.E. Weather Alert; Fire Tone-Out; Alpha Tagging; 100 Quick Key System; Audio AGC; Automatic Digital Threshold; Search with Scan; DCS/CTCSS Rapid Decode; PC Control (Software Included). Dim: 2.4" w x 5.35" h x 1.22" d; 0.6 lbs. .... **\$549.99**

**SC-230 Racing Sport Handheld Scanner with Race Track Operation** – Covers: 25-54, 108-174, 216-225, 400-512, 806-956, 1240-1300 MHz (excluding Cellular); 1600 Channels/2500 maximum; Dynamically Allocated Channel Memory; Race Track Operation; Close Call™ RF Capture Technology; Alpha Tagging; Quick Key System Access; S.A.M.E. Weather Alert; 10 Programmable Search Ranges; 11 Preprogrammed Service Searches; Priority Scan; Attenuator cuts down on interference from strong, nearby signal sources; Delay; Backlight on Squelch; 2 AA battery operation, Alkaline or rechargeable (batteries can be charged while in the scanner); PC Interface provides both programming and remote control of scanner features from a PC (software included); On-Air Programming (separate transmitter required) makes programming multiple units a snap – just transmit the driver information using a PC and transceiver, and all scanners update at once. Dim: 2.9" w x 4.6" h x 1.4" d; 7.8 oz. .... **\$199.99**

## uniden Base/Mobile Scanners



BC-340CRS  
BC-370CRS

**BC-340CRS CRS Clock Radio Scanner with 100 Channels in 10 Banks** – Covers: 25-54, 108-174, 406-512 MHz. Service Search; Weather Scan; AM/FM Radio; Alarm Clock with Snooze; Public Safety Scanner ..... **\$99.99**

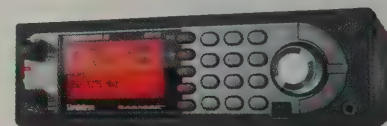
**BC-370CRS CRS Clock Radio Scanner with 300 Channels in 10 Banks** Covers: 25-54, 108-174, 225-380, 406-512 MHz, 806-956 MHz (excluding cell). All Hazard alert; Atomic Clock; Service Search; Weather Scan; TV Audio 2-13; AM/FM Radio; Alarm Clock w/Snooze; Public Safety Scanner .... **\$139.99**



**BC-350C 800 MHz Base and Mobile Scanner** Coverage: 25-54, 108-174, 406-512 and 806-956 MHz (excluding cellular). 6 Preprogrammed service banks; 13 preset search bands; 100 user-programmable memories; 100 channels-per-second scanning speed; Search lockouts; luminescent backlit LCD screen. Includes mounting bracket, AC adapter, DC power cable and vehicle power plug. Dim: 5.2" w x 1.6" h x 6.5" d; 1.6 lbs. .... **\$99.99**



**BCT-8 BearTracker™ Warning System with 800 MHz TrunkTracker III** – Coverage: 25-54, 108-174, 400-512 and 806-956 MHz (excluding cellular). 250 channels in 5 Banks, 5 priority channels; Trunking (Motorola® Analog, EDACS®/EDACS® SCAT, LTR®); Service Search/highway patrol frequencies preprogrammed by state; 100 channels per second scanning with search lockouts; Priority scan; BearTracker™ Warning System alerts to highway patrol frequency activity within 3 miles; Backlit LCD. Dim: 7" w x 2.5" h x 6" d; 4.9 lbs. .... **\$179.99**



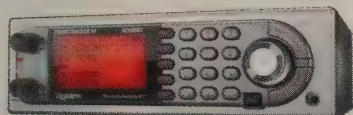
**BCT-15 BearTracker™ Mobile Trunking Scanner with GPS Support** – Alerts you to activity on Highway Patrol link frequencies within about 3 miles of your location. Close Call™ RF Capture Technology - tunes to signals from nearby transmitters. 2500 Dynamically Allocated Channels; Up to 400 Systems; 100 System Quick Keys; TrunkTracker III - EDACS, MOTOROLA, E.F. JOHNSON; Location-Based Scanning; Temporary Lockout; Dangerous Crossing, Dangerous Road and POI Alert; Public Safety Scanner ..... **\$239.99**



uniden



**BC-998T** 500 Channel Base/Mobile Scanner TrunkTracker III; Covers: 25-54, 108-174, 216-512 and 806-956 MHz (excluding cellular); 10 banks/50 channels; AutoStore; TrunkTracking™ (Motorola, EDACS & LTR); 1000 talk group ID's (10 lists/10 Banks); DCS/CTCSS; Conventional and trunked search; Programmable search and delay; Weather channels with S.A.M.E. alert; Priority scan. Includes AC adapter, DC Power Cable with auto power plug. Dim: 10.5" w x 7.3" d x 3.5" h; 3.8 lbs..... **\$209.99**



**BCD-996T** Mobile Trunking Scanner with GPS Support & APCO-25 - 6000 Dynamically Allocated channels; Location-Based Scanning; APCO-25 Digital; 100 System Quick keys; Dual-Color Display; Temporary Lockout; Dangerous Crossing, Road and POI Alert; DIN-E Mounting; Multi-Site Trunking; Close Call™ RF Capture technology; Public Safety scan. Dim: 7.2" w x 5.9" d x 2.2" h; 3.4 lbs..... **\$549.99**



**ALINCO** WIDE BAND RECEIVERS  
AMATEUR RADIO'S VALUE LEADER™

#### DJ-X7T Wideband Receiver

Covers 100 kHz to 1299.995 MHz (less cellular) in AM, FM wide and FM narrow modes. The large, illuminated, easy-to-read LCD display shows frequency information, the operating mode and memory channel. Features include: 1000 memory channel, four user-selectable antenna

choices (SMA flexible whip, internal AM and SW bar antennas, or the the earphone cable. Comes with an AC charger that can charge the supplied Lithium Ion battery and lets you listen at the same time. The DJ-X7T can also clone to other DJ-X7 units through an optional cable. Dim: 2.4" w x 4" h x 0.7" d, 3.7 oz..... **\$169.99**

#### DJ-X30T Wideband Receiver

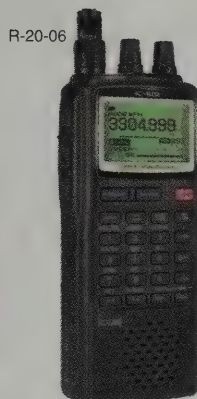
Covers 100 kHz to 1299.995 MHz (less cellular) in AM, FM wide and FM narrow modes. FM stereo mode is available via the earphone jack. 1000 alphanumeric memories in 10 banks, and 5 scan modes. Listen to AM, FM and TV stations, the shortwave world, aircraft, business communications, the ham bands, fire, public safety, traffic and more. A selectable illuminated LCD keyboard system allows you to easily enjoy many advanced features, including whether or not you want the keypad mounted on the radio. A menu of selectable parameter settings and the easy-to-use design enables customizing and programming frequencies to suit your individual preferences. Uses "AA" batteries. Includes belt clip, hand strap, face panel, SMA antenna. Dim: 2.28" w x 3.89" h x 1.24" d, 5.3 oz. .... **\$199.99**



ICOM HANDHELD RECEIVERS



R-5-06



R-20-06

#### R-5-06 Super Wideband Handheld Receiver

Covers 495 kHz to 1309.995 MHz (cell blocked). Listen to AM/FM broadcast radio, police, fire, military, aircraft, amateur bands, and more. Preprogrammed TV and SW memories. Weather alert. Large, backlit LCD shows frequency, operating and battery status, signal strength and alphanumeric of the 1250 memories (200 auto-write scan and 25 scan edge pairs). DMS; CTCSS/DTCS; Internal bar antenna; PC programmable; Cloning; Weather resistant; Rechargeable Ni-Cd battery; DC jack. Dim: 2.25" w x 3.4" h x 1" d; 6 oz.. **\$189.99**

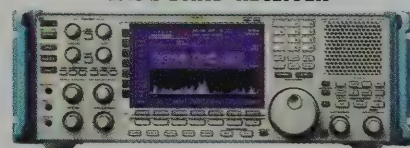
**R-20-06** Wideband Handheld Receiver - Covers 0.15 to 3304.99 MHz (cellular blocked), 1250 memories. Perfect for AM/FM radio, TV sound, monitoring boaters, aviation, conventional public safety and many other commercial services. Multiple scan functions with 100 ch./sec. scan and VSC which opens squelch only on modulated signal detection. Dual watch; Built-in 4-hour IC audio recorder; Auto squelch; CTCSS/DTCS & DTMF decode; RF gain and Attenuator; Noise blanker and Automatic Noise Limiter; AF filter; Bandscope; Auto Frequency Control function; Offset capability for semi-duplex channel monitoring; Back-lit keypad and dot-matrix LCD with programmable channel names (up to 8 characters); Internal bar antenna for MF reception, BNC antenna connector; CI-V PC control capability; 11-hour Lithium-ion rechargeable battery. Dim: 2.28" w x 5.5" h x 1.22" d ..... **\$484.99**

#### COMMUNICATIONS RECEIVER



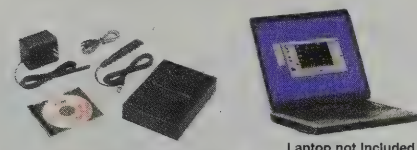
**R-75** HF + 50 MHz All Mode Communication Receiver - Covers 0.03 to 60 MHz, all modes, 101 memories. Conventional tuning and direct input via keypad. Alphanumeric readout with bar S-meter; DSP; Two-level preamp; Noise blanker; Twin pass-band tuning; Front speaker; Record output and tape recorder activation jack; High/low-Z antenna inputs; Filter options. Operates from 13.8V DC with optional OPC-869 DC cable or 110V with supplied AC adapter. Dim: 9.5" w x 3.75" h x 9" d; 6.6 lbs. **\$599.99**

#### WIDE BAND RECEIVER

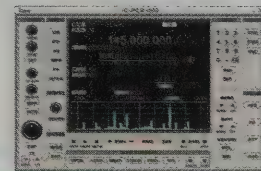


**R-9500-02** Super Performance Multiple Function Wideband "measuring" Receiver Covers 0.005 to 3335.000 MHz (cellular blocked), in USB, LSB, CW, FSK, WFM & AM modes with 1020 alphanumeric memories. Multiple scanning functions. Many normal and wide spectrum scope functions display on the the 7-inch wide multi-function TFT LCD. Five roofing filters before the first amplifier, dual independent 32-bit floating point DSP processors and digital I.F. filter. Noise Blanker; Voice synthesizer; Digital Voice recorder; USB connector; Receive assist functions. Dim: 16.6" w x 5.8" h x 13.3" d; 44 lbs ..... **Special Order \$13500**

#### WIDE BAND PC RECEIVER



Laptop not Included



Remote Control Head with R-1500-05 & R-2500-05

**PCR-1500-25** Computer Controlled Wideband Receiver/Scanner - Connects to your Windows® 98SE/ME/2000/XP or Vista™ PC via a USB cable. Wide frequency coverage from 0.01-3300 MHz (less cellular). Modes of reception include AM, FM-Wide, FM-Narrow, SSB and CW. (CW and SSB up to 1300 MHz only). Up to 25 channel activities can be observed on the multi-channel monitor screen at a glance. Audio can be stored on the PC in WAV format. Choose from three different screens: "Communications Receiver" (shown), "Component-style" and "Compact". Includes CTCSS/DCS, pocket beep, IF shift, auto memory write, AFC, AGC, weather alert, 24 digit DTMF tone decoder and up to 2700 memory channels per file. An optional plug-in DSP unit provides Noise Reduction and Audio Notch Filter. Includes AC adapter, whip antenna, USB cable and software CD. Dim: 5.75" w x 1.6" d x 8.1" d; 2.6 lbs. **Free BON CS 4.5 Software \$479.99**

**R-1500-05** Same as PCR-1500-25, but w/Remote Control Head. **Free BON CS 4.5 Software \$579.99**



**PCR-2500-25** - Similar to the PCR-1500-25, but features dual receive and is upgradable with the UT-122 digital decoder, UT-106 AF DSP unit and UT-108 DTMF decoder or UT-118 **D-Star** digital voice decoder ..... **Free BON CS 4.5 Software \$709.99**

**R-2500-05** - Same as PCR-2500-25, but with Remote Control Head. **Free BON CS 4.5 Software \$879.99**

® Price after mail in rebate (USA only); rebates and freebies may expire 12/31/07.  
Please call/web for current price and promotions.





**AR-8200 MK III-B**  
Compact Wideband  
Receiver

Covers 0.5-3000 MHz (cellular blocked) in FM-W, FM-N, super narrow FM, AM-W, AM-N, SSB & CW modes and 1000 alphanumeric memories in 20 banks of 50 channels. Scans and searches at 37 steps per second. High stability TXCO; Dual VFOs and twin frequency readout; Alphanumeric display; Band scope; Bar signal meter; CTCSS decode; 20 second

Record/Playback and voice inverter; Noise limiter; Attenuator; Computer control and programming capability. Includes: four NiMH 1500 mAh "AA" rechargeable cells (also operates on external 12VDC), AC charger, belt-clip, auto cigarette lighter power cord, removable AM & telescopic whip antennas. Dim: 2.4" w x 5.7" h x 1.0" d; 0.75 lbs. **\$569.99**

**AR-5000A+3B**  
Wideband  
Receiver



The choice for professionals, top-end hobbyists, government departments and armed forces for its amazing sensitivity and strong signal handling capability. Covers 10 kHz to 2.6 GHz (less cellular) in AM, FM-N, FM-W, LSB, USB and CW modes with 2000 multi-function memories in 20 banks of 100 memories. Six bandwidths of 3, 6, 15, 30, 110 and 220 kHz. Sophisticated multiple scanning functions. Noise Blanking, AFC and AM Synchronous Detection. Operates on 12-16VDC @ 1A. Dim: 8.5" w x 4" h x 10.2" l, 7.8 lbs. **Special Order \$2599.99**



**AR-8600**  
**MK II-B**  
Wideband  
Receiver



Extremely versatile, use virtually anywhere. Coverage: 530 kHz to 3000 MHz (cellular blocked). All modes, including SSB and with programmable tuning steps in multiples of 50 Hz in any mode and TXCO stabilized. 1000 memories (20 banks); Programmable scan and search. Multi-section backlit LCD; Numeric keypad, Navigation keys; Rotary tuning control and separate controls for volume and squelch; Versatile band scope with save trace facility; Alphanumeric text comments; Write protect/keypad lock; AFC; Noise limiter; Attenuator; Flash-ROM memory; Slot card sockets; BNC socket for 10.7 MHz; RS-232 port for computer control; 12 VDC. Includes: AC power supply, telescopic whip antenna, medium wave (AM) plug-in antenna and manual.

Dim: 5.9" w x 2.2" h x 6.9" d; 4.9 lbs. **\$899.99**

**LA-380**  
**WIDE BAND**  
**ACTIVE LOOP**  
**ANTENNA**



A wide range, 10 kHz to 500 MHz single loop active receiving antenna with five selectable presets and ranges and only 1 ft. in diameter. Incorporates a built-in high-gain amplifier 20 dB for 10 kHz to 250 MHz and variable tuning from 3 to 40 MHz and fixed tuning from 60 kHz to 3 MHz and 40 to 50 MHz. A BNC output jack with a 3.3 ft. BNC to BNC patch cable is provided. Operates from 12 VDC or 110V using the supplied AC wall adapter **\$379.99**



**G1100**



**G5**



**G5350DL**



**G2800**



**G1100 \$49.99**

- AM/FM and 10 Shortwaves
- Analog tuning with digital frequency
- Digital clock, sleep function, snooze

**G5 \$149.99**

- AM/FM-stereo/shortwave coverage
- 700 programmable memory presets
- Clock, sleep timer and alarm

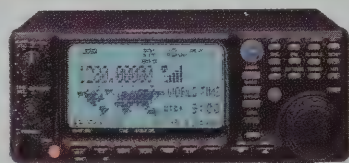
**G5350DL \$99.99**

- AM/FM/Shortwave reception
- Aeronautical design with rugged body
- Line-level output, separate bass, treble

**G2800 \$29.99**

- AM/FM/7 Shortwave bands
- Clock, alarm and sleep timer
- Rotary volume control

Grundig Radio Line by **etón** [www.etoncorp.com](http://www.etoncorp.com)



VR-5000



**VR-5000 Multi-mode Scanning Receiver**

Covers 100 kHz-2.6 GHz (cellular blocked) in AM, FM-N, FM-W, LSB, USB and CW modes with VFO or direct keypad frequency entry and 2000 memories (10 banks) with alphanumeric. Dual receive; Versatile scanning system with automatic memory loading; Bandscope; World clock with time zone map. Dim: 7.1" w x 2.8" h x 8" d; 4.2 lbs. **\$569.99**

**VR-500 PACK Mini-Receiver**

Covers 100 kHz to 1300 MHz (cellular blocked) in CW, SSB, AM/FM wide and narrow modes. Includes AM/FM broadcast, HF SW to 16 MHz, VHF and UHF TV bands, VHF AM aircraft band, plus commercial and public safety frequencies. Keypad entry; 1000 memory channels, 100 "skip" and 10 search memories, 100 dual watch memories; Priority. Uses two "AA" batteries. Comes with FNB-79 NiCad battery and NC-60B wall charger. Dim: 4.2" h x 2.2" w x 1" d; 7 oz. **\$299.99**

**VR-120D PACK Mini-Receiver**

Covers 100 kHz to 1300 MHz (cellular blocked) in AM/FM wide and narrow modes. Includes AM/FM broadcast, HF SW, VHF/UHF TV, VHF AM aircraft plus commercial and public safety. 640 memories; Scanning; 4-button operation. Comes with NC-82 charger stand, CA-34 charger sleeve, PA-30B AC adapter and FNB-79 NiCad battery. Dim: 3.3" h x 2.3" w x 1" d; 6.9 oz. **\$189.99**

© Price after instant coupon, coupon may expire 10/31/07. Please call/web for current price and promotions.



VR-500 PACK0

VR-120D PACK

**American Red Cross**

**FR400**  
by Eton

**\$59.99**

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[www.etoncorp.com](http://www.etoncorp.com)



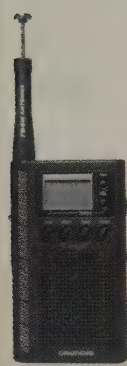
**AH-7000**  
Wideband Antenna

This DISCONE design provides wide 25 to 1300 MHz coverage. Stainless steel, 5.5 ft. high and attaches to a standard mast (not supplied) with two supplied U-bolts. Comes with a preassembled 50 ft. cable with type-N connectors.... **\$169.99**





**GS-350DL DELUXE** – Offers exceptional value and great reception of AM, FM and international shortwave. Incorporates an analog receiver with digital display of frequency and clock. A single-conversion superheterodyne circuit design, receives continuous shortwave from 2.9 - 27.4 MHz, covering all 12 international shortwave broadcast bands (11, 13, 16, 19, 22, 25, 31, 41, 49, 60, 75 and 90 meters). A wide and narrow switch on the front panel allows you to narrow the radio's bandwidth to reduce adjacent channel interference. A new SW/AM frequency lock circuit improves stability to reduce drift. There is a built-in 12/24 hour clock with 90 minute sleep timer. Uses a built in telescopic antenna for FM and shortwave plus a built in ferrite bar antenna for AM. On the back panel there's a 75 ohm antenna jack for FM and terminals for AM/SW wire antenna and ground. Side left and right line level outputs and a stereo/mono switch and a stereo earphone jack for private listening. A 4 inch speaker provides solid sound. Comfortable carrying handle. Requires (4) D or AA cells (not supplied), includes an AC adapter. Dim: 12.5" w x 7" h x 3.5" d; 3 lbs, 9 oz. .... **\$99.99**



**GM-300PE AM/FM Shortwave Radio** – Weighs less than 5 ounces and small enough to fit in your pocket making it a perfect travel companion. Covers AM, FM-stereo and 7 Shortwave bands (49, 41, 31, 25, 22, 19 and 16 meters). The telescoping and ferrite antennas provide great AM/FM reception for when camping, hiking, listening to sports, or just relaxing. Analog tuning with digital display that shows frequency, time, sleep time and symbols for sleep timer and alarm activation. Includes protective pouch, belt clip and stereo earbuds. Powered by (2) AA batteries. Dim: 2.5" w x 4.5" h x 0.75" d; 4.5 oz. .... **\$29.99**



**G-1100 AM/FM SW Radio** – It's small enough to fit into your pocket, and capable of receiving AM/FM and 10 shortwave bands. Analog tuning with digital frequency LCD. Clock with alarm/snooze. Stereo via headphones. Uses (2) AA cells, includes protective pouch and earbuds. Dim: 5.12" w x 3.15" h x 1.14" d; 7 oz. .... **\$49.99**

**E-1 AM/FM/SW and XM Satellite Radio**



\*XM Radio requires a subscription, AUD CNP-2000 & AUD CNP-2000H, not included

**GRUNDIG**



**E-100 Compact Portable Digital Radio** – Covers: AM (520 to 1710 kHz), FM (87 to 108 MHz) and Shortwave (1.711 to 29.995 MHz). Tunes via keypad entry or fine-tuning knob. It stores up to 200 of your favorite stations. Built-in digital clock with dual timers and snooze. Signal and battery indicator. Stereo/Mono switch; Tuning bargraph; Backlit LCD; Earphone jack; 3.0 VDC input jack; Flip stand. Includes wrist strap, protective case, and stereo earbuds. Powered by (2) AA cells. Dim: 5" w x 3" h x 1.25" d. .... **\$99.99**

**E-10 Portable Digital Radio** – Coverage: AM/FM (stereo at earphone jack) and SW (1711 kHz to 29.999 MHz). Tunes via: manual tuning; direct keypad entry or scanning. Store up to 550 stations or use the ATS (Auto tuning system) for automatic memory storage of AM/FM stations. New "IF Set" feature shifts the radio's IF to minimize interference during SW reception. Backlit LCD; AM 9/10 kHz and SW 1/5 kHz steps; Wide/narrow bandwidth; Fast/slow manual tuning; Hi/low tone control; External antenna jack; Flip stand; Antenna trimmer optimizes antenna. Has built in Ni-MH battery charger. Includes, wrist strap, protective pouch and AC adapter. Dim: 7.5" w x 4.5" h x 1.2" d; 1.3 lbs. .... **Closeout \$99.99**

**G-5 World-Class Portable Radio** – Covers AM, FM and shortwave. Dual conversion AM/SW circuitry for exceptional sensitivity and image rejection. Tuning is via auto-scan, manual scan, conventional tuning knob or direct keypad entry. Includes S.S.B. (Single side-band) reception and FM stereo is available through the earphone jack. 700 channel memory capacity with memory scan and auto tuning storage. 24 hour clock with alarm and sleep timer. Line Output jack for a tape recorder or external audio amplifier. The LCD display can be illuminated three different ways. Includes: Local/DX Switch, Wide-Narrow selectivity and external antenna jack. Requires (4) AA cells (not supplied), or supplied AC wall adapter/charger. Built in battery charger. Carrying strap, and carrying pouch also included. Dim: 6.625" w x 4.125" h x 1.125" d; 12.2 oz **\$149.99**




**FR-200 Emergency Radio** – An analog portable that receives AM (530-1710 kHz), FM (88-108 MHz) and two shortwave bands. Features smooth, precise analog tuning with a concentric fine tune knob. Operates from a built-in wind-up generator charging the supplied NiMH cells, 4.5 VDC or (3) AA cells. Cranking the generator for 90 seconds will give one-hour of operation. Built in 2.5 in. speaker, mini-earphone jack, emergency light and padded carry handle. Includes a canvas carry case with shoulder strap. Dim: 6.75" w x 5.75" h x 2.12" d; 10 oz. .... **C/O \$39.99**

**FR-250 Emergency Radio** – Receives AM (530-1710 kHz), FM (88-108 MHz) and 7 shortwave bands. Powered from a built-in hand-crank power generator with rechargeable Ni-MH battery pack, (3) AA batteries (not included) or AC adapter (not included). Built-in triple LED flashlight, emergency siren and cell phone charger. Main tuning knob with a precise fine-tuning control. Built-in 2.5 inch speaker and rear panel 3.5 mm earphone jack. Built-in antennas: telescopic for FM/SW, AM ferrite bar. .... **\$49.99**

**FR-300 Emergency Radio** – Looks, features and functions same as the FR-250. Does not cover SW bands but includes TV-VHF audio channels 2-13 and 7 NOAA weather channels with WX Alert. .... **\$49.99**

**FR-400 Emergency Radio** – An affordable portable that receives AM (530-1710 kHz), FM (88-108 MHz), VHF TV audio and 7 NOAA weather channels. Versatile – powered from the crank generator which charges the supplied NiMH cells, (3) AA cells (not supplied) or 4.5 VDC from the included 120V AC adapter. Cranking at two turns per second for 90 seconds will provide 40-60 minutes of operation. Built-in the side of the radio is a triple LED light. Two white LEDs provide illumination, and a blinking red LED is for signaling. Additionally, there is a loud siren function. Three rear panel jacks are provided for earphone output, 4.5 VDC input and phone charger output. The FR-400 has the capability of recharging certain cell phones using included cellular power adapters. Includes a black canvas carry case, AC adapter, owner's manual, Red Cross Disaster Preparedness Guide. Dim: 8.7" w x 4.5" h x 2" d; 1.3 lbs. .... **\$59.99**

**AUDIOVOX<sup>®</sup> XM RADIO TUNER ANTENNA & DOCK**



**CNP-2000 XM Radio Tuner** – Delivers XM satellite radio programming to a wide array of existing XM Ready products including home stereo and home theater systems, DVD players, bookshelf systems, boomboxes, clock radios, and portable audio devices that have a passport slot **Closeout \$29.99**

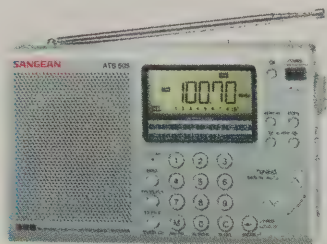
**CNP-2000H Home Dock Unit/Antenna**  
Provides CNP-2000 connectivity to XM Ready devices without a passport slot **Closeout \$29.99**

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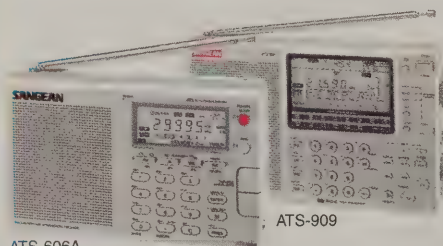




**ATS-404** PLL Synthesized World Band Receiver Coverage includes AM (520-1710 kHz), 14 SW bands (2.3-26.1 MHz) and FM (87.5-108 MHz). Tune via Up-Down buttons; Automatic scan tuning; Keypad entry or the 45 Memory presets. Backlit LCD shows frequency or 12/24 hour clock-timer with alarm and snooze. Other: FM stereo with earphones, MW 9/10 kHz, low-battery indicator, lock; dial lamp switch, stereo-mono switch, tune LED, flip-out tilt-stand and 6VDC jack. Includes carrying case and stereo earbuds. Uses (4) "AA" batteries. Dim: 6.5" w x 4" h x 1.5" d; 10 oz..... **\$79.99**



**ATS-505** PLL Digital World Radio - Coverage: LW (153-279 kHz), AM (520-1710 kHz), SW (1711 kHz - 29.999 MHz) & FM (87.5-108 MHz). Tune via Manual tuning knob; Up-Down buttons; Automatic scan tuning; Keypad entry or from the 45 memories. SSB reception with fine tuning. Other features: Stereo via earphones, Auto Preset System, MW 9k/10k switch, lock, tone control, Local/DX switch, backlit LCD, 12/24 hour clock with alarm and snooze. Includes AC adapter, the ANT-60 wind-up antenna, carry case & earphones. Uses (4) "AA" batteries. Dim: 8.5" w x 5.3" h x 1.6" d; 24 oz..... **\$129.99**



ATS-606A

ATS-909

**ATS-606A** PLL World Band Receiver - Coverage: 153 kHz to 30 MHz, AM/FM with Manual or Keypad tuning. Backlit LCD; 54 memories; Scanning; Fine tuning; Dual digital clock-timer-alarm; FM stereo with earphones. Uses (3) "AA" batteries. Includes ANT-60 wind-up antenna, AC adapter and earbuds. Dim: 5.75" w x 3.5" h x 1.25" d; 1 lb..... **\$139.99**

**ATS-909** PLL World Band Receiver - Coverage: LW (153-519 kHz), MW (520-1710 kHz), SW (1711 kHz - 29.999 MHz) & FM (87.5-108 MHz). Tune via: Manual knob; Direct keypad entry; Auto scan. Manual up-down tuning or Memory recall. Wide/Narrow bandwidth switch and SSB/CW reception with fine tuning. Store 307 presets in Alphanumeric memories; RDS display of Station Name & Time. Other: MW 9k/10k switch; 12/24 hour time, (3) timers and sleep timer; Displays 42 city times; Recorder output. Uses (4) "AA" batteries. Includes AC adapter, ANT-60 wind-up antenna, stereo earbuds and carrying case. Dim: 8.5" w x 5.375" h x 1.375" d; 1.9 lbs. **\$249.99**



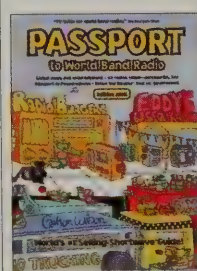
**PT-80** ProTravel - German designed and radio-engineered by Sangean. This great looking travel radio has all the features a traveler will ever need. AM, FM, Longwave, and continuous shortwave coverage from 1711 to 29,999 kHz with SSB capability. Five tuning methods: Direct frequency access, Auto scan, Manual tuning, Memory recall from 45 presets, and Rotary tuning. Built-in 12/24 dual world time clock with alarm, snooze, and sleep timer. Snap-on leather case, AC adapter, earphone, and SW antenna included. Uses (4) "AA" batteries. Dim: 7" w x 4" h x 1.0" d; 1 lb. 2 oz..... **\$159.99**



**RCR-2** Digital Atomic Clock Radio - A combination of Atomic Clock function and sleek design. To ensure accurate time, the clock is adjusted by radio signals received from the U.S. atomic clock in Colorado. An easy-to-read LCD displays time, date, day of week, sleep, wake, and nap time. Dual alarms can be set and used independently with selectable days, with the option to wake to a radio buzzer alarm that starts softly, then gradually increases in volume. The AM/FM radio with ATS system locates stations and automatically sets up 14 preset memories. Dim: 7.5" w x 3" h x 5.25" d; 2 lbs..... **\$69.99**



**WR-1** High Fidelity Radio - This beautifully crafted AM/FM radio creates the warm rich tones normally found in only larger, more expensive home systems. A specially designed HI-FI circuit with 7W output, a custom made 3 in. speaker, and bass compensation combine in an attractive and acoustically corrected wood cabinet. No other radio will be found with a better sound quality at a comparable price. The walnut and black cabinet will accent any room. Headphone, record out & 12VDC input jacks. Dim: 9.4" w x 4.4" h x 6.6" d; 5.18 lb..... **\$99.99**



### 2008 Passport to World Band Radio

Everything you need to know about tuning in shortwave stations, countries, frequencies and times. Includes informative reviews on popular world-band radios, many antennas, and expanded station address lists. 592 pages.

IBS 2008 **\$22.95**

**DT-200V** Broadcast and TV Band Receiver - Fits in shirt pocket or clips to belt. Covers AM and FM broadcast, plus audio from TV channels 2-13. LCD display, Up/Down tuning; 19 memories, Automatic shut-off; Built-in speaker; Stereo earphones. Uses (2) AA batteries. Dim: 4.375" h x 2.625" w x .75" d; 5 oz.. **C/O \$59.99**



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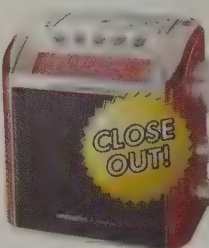
**ANT-60** - Portable, wind-up, shortwave antenna for use with most shortwave radios..... **\$13.99**



### PR-D2

#### FM-Stereo/AM/TV Digital tuning Portable Receiver

A retro-1960's classic design with modern technology that come together in this stylish decorative portable/table-top radio. Attractive gold faceplate with simulated walnut exterior. Four tuning methods: Scan tuning, Rotary tuning, Manual tuning and 10 Memory preset tuning - also tunes TV channel audio. Clock feature with alarm. Rotary tuning knob, direct access buttons, and tone control. Full range 5 in. speaker, 1.5 in. tweeter and earphone jack. Beautifully crafted case with lighted display, illuminated presets. AC/DC, operates on 110VAC or (4) "D" batteries. Dim: 7.2" w x 5.1" h x 7.5" d; 4 lbs. **Closeout \$69.99**



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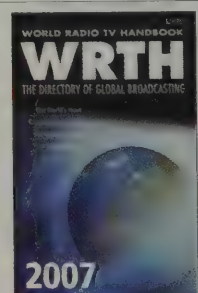
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## USE YOUR CREDIT CARD

### 2007 World Radio TV Handbook

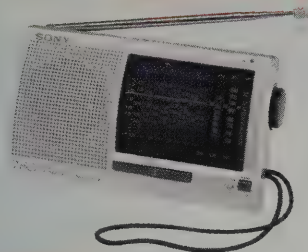
The world's most comprehensive and up-to-date reception guide to mediumwave, shortwave and FM broadcasting for the serious radio listener. Informative articles, operating hints and latest product reviews.

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# SONY WORLD BAND RADIOS

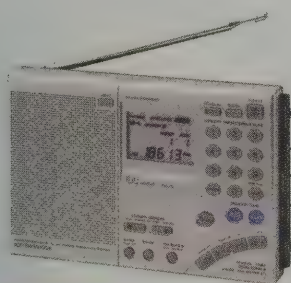


## ICF-SW11 Compact Analog Portable

Coverage: LW (141-290 kHz), MW (525-1620 kHz), FM (88-108 MHz) and nine Shortwave Bands: 4.75-5.06, 5.9-6.2, 7.1-7.35, 9.4-9.99, 11.6-12.1, 13.57-13.87, 15.1-15.8, 17.48-17.9 and 21.45 to 21.75 MHz. Easy analog tuning with LED tuning indicator; FM stereo available at headphone jack; 2-1/4 inch speaker; DC input jack; Flip stand; Wrist strap. Uses two "AA" batteries or 3 VDC. Dim: 6.5" w x 3.75" h x 1.3" d; 12 oz..... **\$49.99**



**ICF-SW35 Digital Portable** - PLL synthesized, dual conversion superheterodyne (except FM band). Coverage: LW (150-285 kHz), AM (530-1710 kHz), FM (76-108 MHz) and SW (2250 kHz to 26.1 MHz). FM stereo at headphone jack. Tuning via: UP/DOWN buttons, 50 memory presets or automatic memory scan. Memories are in 5 banks of 10 presets each, are non-volatile and retained when changing batteries. Dial illumination button; Sleep button; Lock switch; 9/10 kHz MW step switch; 2.125" speaker; RF attenuator; Tone switch; Stereo earphone jack; Flip-stand. Uses three "AA" batteries or 4.5 VDC. Includes: cloth carry case, wrist strap and Shortwave Guide. Dim: 6.7" w x 4.5" h x 1.4" d; 16 oz..... **\$89.99**



## ICF-SW7600GR General Coverage Portable

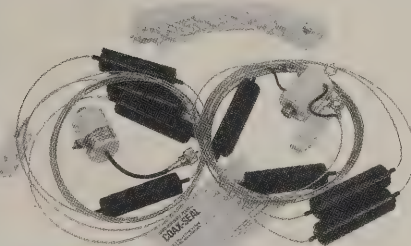
Dual conversion superhet; microprocessor controlled and PLL synthesized. Covers 150 kHz to 29.999 MHz and 76-108 MHz FM with stereo at headphone jack. Tuning via: 10-key direct access keypad, manual, automatic scan and scanning of 100 memories. SSB/CW reception and AM synchronous detection. Multi-function LCD digital readout; 1/5 kHz step tuning; 9/10 kHz MW step; Dial light and LED "tune" indicator; 24-hour digital dual time clock with sleep timer; Record jack; Tone switch; 3 in. speaker; Keypad lock; External antenna jack; Uses four "AA" cells or 6 VDC. Includes: wind-up antenna, wrist strap, carry case and SW Guide. Dim: 7.6" w x 4.75" h x 1.3" d; 22 oz..... **\$159.99**

**CLOSE OUT!**



## ICF-SW12 Shortwave Analog Clock Radio

For the traveller; compact size and protective lid. Coverage: FM, AM and SW bands (1-9) 4.75-5.06, 5.9-6.2, 7.1-7.35, 9.4-9.99, 11.6-12.1, 13.57-13.87, 15.1-15.8, 17.48-17.9 and 21.45-21.75 MHz. LED Tuning Indicator for precise center-frequency indication and accurate tuning; Bandsread; Sophisticated backlit LCD World Clock display; Built-in alarm with snooze function; Summer time adjustment; Built-in AM ferrite bar and telescopic FM/SW antenna; 1.8 inch speaker; Earphone jack; Shortwave Guide. Uses two "AA" batteries. Dim: 4.3" w x 3.1" h x 1.2" d; 8.2 oz..... **Closeout \$69.99**



**ANTENNA SUPERMARKET**

## SHORTWAVE BROADCAST RECEIVING ANTENNA

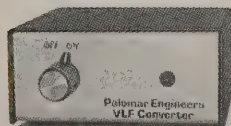
**EAVES TWIN** The Eavesdropper Shortwave Broadcast Receiving Antenna - A 42 ft. long center-fed dipole with 8 automatic switching trap circuits which electrically separate the antenna segments - just tune your receiver to cover the 11, 13, 16, 19, 21, 25, 31, 41, 49, 60 and 75 meter short wave bands. May be installed as a "sloper", horizontal dipole or inverted "V".

Includes THE ZAP TRAPPER® electronic gas-tube lightning arrestor for receiver protection.

Completely assembled, ready to use. Uses heavy 14-gauge hard drawn stranded antenna wire and includes 100 ft. of 72Ω twin-lead transmission line and 50 ft. of 450# test support rope..... **\$99.99**

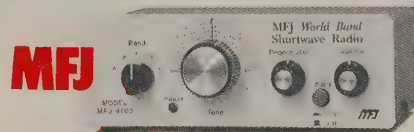
**EAVES SO239** - Same as the Eaves Twin above, but not including twin-lead transmission line. Has a weather-proofed SO-239 connector to accept coaxial cable (not included)..... **\$99.99**

**PALOMAR ENGINEERS VLF CONVERTERS**



Hear the 1750 meter band, the navigation beacon band, WWVB, ship-to-shore communications, and the European LF broadcast band. The VLF receives the entire 10 to 500 kHz VLF radio band and converts it to tune across 80 meters on a general coverage receiver or ham band transceiver. Dim: 2" h x 4.25" w x 5" d.

**VLF-A** - For Ham Band transceiver..... **\$99.99**  
**VLF-S** - For General Coverage receiver..... **\$99.99**



## REGENERATIVE SHORTWAVE RECEIVER

**8100W** - Listen to international shortwave broadcasts and hams on SSB/CW, RTTY packet and more. Coverage: all or part of 75/80, 49, 40, 30, 31, 20, 19, 17, 16, 15 and 13 meters in five bands. Using just a 10 ft. wire makes worldwide stations come in loud and clear. Vernier drive tuning; Bandswitch; Volume/RF gain controls; Aluminum cabinet. Requires 9V battery, earphones or plug-in speakers. Dim: 7" w x 2.5" h x 6" d; 1 lb. .... **\$99.99**

**8100K** Same, but in KIT form..... **\$69.99**



**1024 Outdoor Active Antenna** - Covers 50 kHz to 30 MHz. A separate RF amplifier module with a 54 in. telescopic whip antenna mounts anywhere outside and connects by the supplied 50 ft. coax to the control unit inside. The control contains a gain control and 20dB attenuator and you can select between two receivers and an auxiliary antenna. Auxiliary input and output jacks. Uses 12VDC or 110VAC with an MFJ-1312D adapter (\$15.99). Dim: Control 6" w x 2" h x 5" d; Module 3" h x 4" w x 4" d..... **\$139.99**



**1020C Indoor Active Antenna** - Covers 300 kHz to 30 MHz in 5 bands with the top mounted 21 inch telescoping antenna. Improves indoor reception and functions as a preselector when using an external antenna system. Improves sensitivity, selectivity and reduces noise. Uses 9V battery, 9-18VDC or 110V with an MFJ-1312D adapter (\$15.99). Dim: 5" w x 2" h x 6" d.. **\$89.99**



**1040C All-Band Preselector** - Improves reception while rejecting out-of-band signals and images on four bands: 1-3, 3-7, 7-18 and 18-54 MHz. Low-noise 20dB gain MOSFET amplifier with a gain control and 20dB attenuator handles a wide range of signal levels. Usable with transceivers up to 125W; a relay automatically bypasses the amplifier on transmit. Push buttons select 20dB attenuator, two antennas, two radios. Controls for delay, gain, band and tune. Unit is bypassed when off. Requires 9-18VDC or MFJ-1312D (\$15.99)..... **\$109.99**





# WEATHER STATIONS, etc.



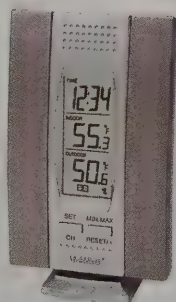
**WS-1612CH-IT Professional Weather Center**  
Operates wireless at 915 MHz from a remote sensor up to 330 ft. away.

## Provides:

- Weather forecasting function with 3 weather icons and weather tendency indicator
- Records MIN/MAX temperature and humidity with time and date of recording
- Low/high outdoor temperature & humidity alarm
- Relative air pressure (inHg or hPa)
- Barometric pressure with 12 hour history graph (in inHg or hPa)
- Storm warning alarm
- Total rainfall (inches or millimeters)
- Wind speed (mph, km/h or m/s, and Beaufort scale); Wind chill (°F or °C); MAX wind speed with time & date of recording; high wind speed alarm; 16-step wind direction display
- Storage of 200 sets of history weather data recorded in 3-hour intervals; manual reset
- Selectable LCD contrast, Low Battery indicator
- Dim: Receiver: 8.9"h x 6"w x 1.25"d; Thermohygrometer: 2.25"h x 2.44"w x 6.18"d; Rain Sensor: 5.51"h x 2.75"w x 5.39"d; Wind Sensor: 9.84"h x 6.45"w x 7.58"d **\$139.99**

## WS-7013BZ Wireless Digital Thermometer

Displays both indoor and outdoor temperatures (°F or °C) simultaneously. Outdoor temperature is transmitted up to 80 ft. to the main unit via a remote sensor which also has its own display for viewing at its remote location. Records minimum and maximum temperatures in memory; outdoor temperatures are time stamped. Includes a highly accurate Quartz Digital clock (not an atomic clock). Just install the included remote transmitter, and get both outdoor and indoor temperatures along with the time. Approx. 4.5' tall, desk or wall mount..... **\$19.99**



## WS-7014CH Wireless Forecasting Station

Displays indoor and outdoor temperature plus indoor relative humidity. Forecast icons indicate Cloudy, Sunny or Rain. Wireless outdoor temperature sensor can be located 82 ft. away. Atomic Time clock. Uses (4) "AA" alkaline batteries. Dim: 5.43"h x 3.54"w x 1.18"d. Desk or wall mount..... **\$49.99**



## WS-7394U-CH-IT

**Wireless Forecast Station**  
Operates wireless at 915 MHz with a range of up to 330 ft.

## Provides:

- Weather forecasting function with 3 weather icons and weather tendency indicator
- Outdoor temperature (°F or °C)
- Indoor temperature (°F or °C) and relative humidity %
- Records MIN/MAX temperature and humidity with time and date of recording
- Barometric pressure with 12 hour history graph (in in. Hg or hPa); Barometric tendency arrow and Indoor comfort level icon
- Atomic time and date with manual setting; Automatically updates for Daylight Saving Time (on/off option); 12/24 hour time display; Perpetual calendar; Time zone setting
- Both Receiver and Sensor operate on (2) "AA" Alkaline batteries. Dim: Receiver: 8.75"h x 4"w x 1.5"d; Sensor: 5.05"h x 1.5"w x 0.83"d. Wall hanging or free standing; stand included ..... **\$69.99**



## WS-8035U-SAL-IT

**DLX Wireless Forecast Station**  
Comes with wireless outdoor thermometer and wireless outdoor relative humidity sensor with a 300 ft. range.

## Provides:

- Digital Relative Barometric Pressure Readout with 24-hour History Graph (in/Hg or hPa), Trend Arrow and Forecast Icon
- Indoor and Outdoor Temperature (F or C) and Humidity (%RH)
- Indoor Comfort Level Icon
- Min / Max Temperature and Humidity with Time and Date Stamp
- Atomic Time and Date with Manual Setting
- Auto Update for Daylight Saving Time
- Time Alarm with Snooze
- 12 or 24 Hour Time Display
- Perpetual Calendar
- Time Zone Setting
- US Time Zone Map
- Moon Phase Indicator
- Wall Hanging or Free Standing
- Receiver & Sensor use (2) AA alkaline batteries
- Dim: Receiver 10"w x 7.5"h x 1"d; Sensor 4.75"h x 2.87"w x 2.36"d ..... **\$89.99**



## WS-9004U-IT

**Wireless Rain Gauge**  
With wireless self-emptying bucket. Shows total rain and rainfall for the last 24 hours.

- User defined rainfall alarm from .050" to 4.00" over a 24 hour period
- Current rainfall indicator; light rain and heavy rain indicators
- Wall hanging or free standing
- Transmission Range: 330 ft.
- Receiver and sensor both use (2) AAA alkaline batteries; last up to 36 months
- Dim: Receiver 3.85"h x 2.35"w x 0.83; Sensor 3.5"h x 5.7"w x 2.2"d..... **\$29.99**



WS-8117U-OAK



WT-3102S

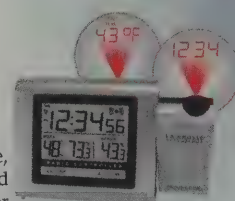
## WS-8117U-OAK Digital Atomic Wall Clock

Extra large digital display shows 12/24-hour Time, Date, Weekday, °F or °C Indoor Temperature and Outdoor Temperature transmitted from the included wireless Remote Sensor located up to 82 ft. away. Automatically sets via WVVb radio signal for the most accurate time. Includes alarm with snooze, a calendar display with day abbreviations in choice of English, French, Spanish, or German, 13 time zone settings, daylight saving time and 8 moon phase icons. Wall mount or free standing. Both the clock & remote sensor use (2) "AA" Alkaline batteries Oak finish. Dim: 12.2"w x 8"h x 1.18"d..... **C/O \$39.99**

**WT-3102S Analog Atomic Clock** - 10 in. diameter. Automatically sets time, accurate to the second and updates for daylight saving time. Four time zone settings. Uses "AA" alkaline battery..... **\$19.99**

## WT-5120 Projection Atomic Alarm Clock with Indoor Temperature, Humidity and Wireless Outdoor Temperature

Displays 12 hour time, indoor temperature and humidity, plus outdoor temperature on its large LCD display. It alternately projects time and outdoor temperature on the ceiling or wall. Alarm and snooze. AC Adapter Included. Dim: 3.6"h x 5.52"w x 1.9"d..... **\$39.99**



## EA-3010 Handheld Anemometer

Check local wind speed and temperature. Wind mode indicates digital maximum or average wind speed (mph, m/s, km/h, knots) digitally plus Beaufort on a 0-12 bargraph scale. Temperature mode shows digital temperature & wind chill. (°F or °C). LED back light and battery saving auto-off. Weather Resistant Case, neckband for easy carrying. Powered by a single CR2032 button battery. Dim: 4"h x 1.63"w x 0.7"d.... **\$49.99**

## IR-101 Infra-Scan Infrared Thermometer

Measures object temperature in a fraction of a second without touching it. Useful for contact-free measurement of stationary and moving objects, finding cold spots in a home, checking food, heating and air conditioning, hot components (machinery, engines, etc.) over a wide temperature range from -4°F to +572°F. One key operation and backlit LCD. Includes (4) LR-44 cells. Dim: 2.2"w x 0.9"d x 4"h..... **\$49.99**



## WS-9023U-IT Wireless Weather Station - Monitor indoor and wireless outdoor temperature and humidity, min/max temperature and humidity and 12/24 hour time. Wall hanging or desktop. Uses 2 "AA" batteries in the receiver and sensor. 915 MHz, 330 ft. range. Dim: 4.54"h x 1.14"d x 1.14"d..... **\$29.99**



Local weather conditions can vary from block to block. Having a weather instrument at home gives you real-time weather data based on what's happening in YOUR back yard from any room in your home.



# DAVIS

## WEATHER STATIONS

Professional quality for home, business, or scientific use. Add WeatherLink for detailed, long-term analysis using a PC.

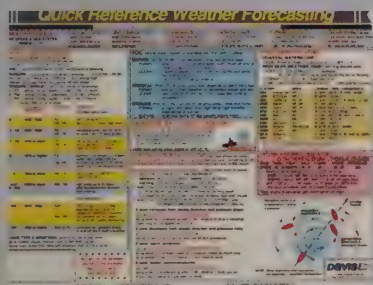


**6152 Wireless Vantage Pro2** - It's the first weather station in its price range to use frequency hopping Spread Spectrum radio to transmit and receive data up to 1000 ft. line of sight. It still offers the same great features of Vantage Pro such as forecasting, on-screen graphing, and much more. Quick view icons show the forecast at a glance-sunny, partly sunny, cloudy, rain or snow- while a moving ticker-tape display gives more details. The integrated sensor suite combines a rain collector, temperature and humidity sensors, and anemometer into one package-making setup easier than ever and improving performance and reliability. For improved accuracy, temperature and humidity sensors are housed inside a radiation shield which protects against solar radiation and other sources of radiated and reflected heat ..... **\$539.99**

### 0281 Wind Wizard™

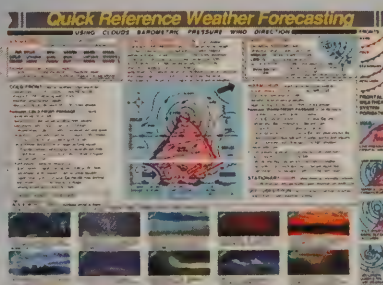
Wind Speed Indicator. Accurately measures speed from 0-60 mph in miles per hour, meters per second, and Beaufort. Readout supported by sapphire jewel bearings and steadied by rare-earth, magnetic, damping system. Latching folding handle. Self-powered - no batteries needed.

Dim: 3.625" x 2.875" x 1" folded; 2.5 oz. **\$49.99**



## DAVIS Weather Forecasting Quick Reference Card

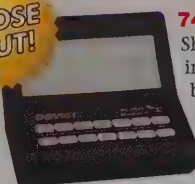
Side 1



Side 2

Discusses the use of wind direction, barometric pressure and cloud type in predicting the weather. Includes full list of radio weather stations for official broadcasts, plus key information on storm warnings, hurricane avoidance, navigating in fog and other hazardous conditions, and more. Weatherproof, strong plastic, full color. Punched for binder or bulkhead mounting. Dim: 8.5 x 11 in ..... **DAV 0131 \$9.99**

CLOSE OUT!

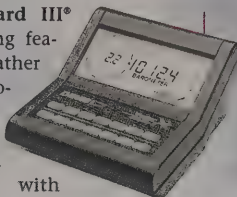


**7440 Weather Monitor II**  
Shows all weather monitoring functions and clock on a back lit 1.875" x 4.375" LCD display. Temperature readings of -50 to 140°F (outside), 32° to 140°F (inside); Wind calculations, including direction in 1° or 10° increments, wind speed up to 175mph, and high wind speed and wind chill to -134°F; Barometer measuring barometric pressure with memory recall and trend arrow; Indoor high and low humidity from 10%-90% (outside optional); Alarms for temperature, wind speed, wind chill, humidity, time and barometric trends. Dim: 5.25" x 5.875" x 3" ..... **Closeout \$249.99**

**7859 External Temperature/Humidity Sensor** For 7440. Measure outside humidity, dew point and temperature. Includes 40 ft. cable ..... **C/O \$79.99**

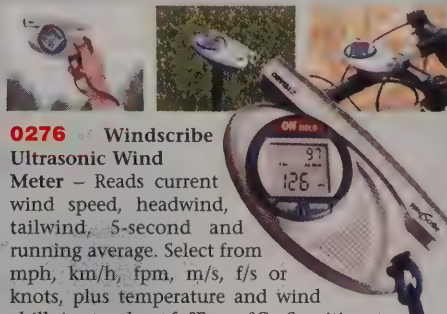
### 7425 Weather Wizard III

Offers most monitoring features of the Davis Weather Monitor II, except barometric pressure and inside humidity. Measure daily and accumulated rainfall with optional rain collector. Optional Weather-Link software will process and store data through an IBM®-compatible or Mac® Metric or U.S. Dim: 5.25" x 5.875" x 3" ..... **\$179.99**



**7852 Rain Collector II** - For 7440 or 7425. Read both daily and accumulated rainfall in 0.01" increments. Comes with 40 ft. cable ..... **\$69.99**

**7400 Perception II** - Ideal for keeping track of climate conditions inside the home. No installation required. Looks similar to 7425; Indoor temperature -32°F to 140°F; Barometric pressure with memory recall; Humidity; Alarms for temperature, humidity, time & barometric change ..... **Closeout \$134.99**



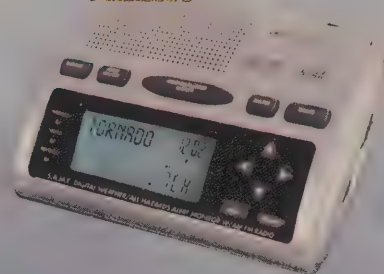
### 0276 Windscribe Ultrasonic Wind Meter

- Reads current wind speed, headwind, tailwind, 5-second and running average. Select from mph, km/h, fpm, m/s, f/s or knots, plus temperature and wind chill in tenths of °F or °C. Sensitive to breezes as low as 0.4mph, and as high as 150mph. Three configurations include handheld use with adjustable lanyard, tripod mount and mounting bracket with Velcro® strap. Includes 3V lithium battery. Dim: 5" x 3" x 0.75"; 3.5 oz ..... **\$99.99**

# MIDLAND

## WEATHER RADIOS

ALERT



**WR-300 AM/FM Alarm Clock Radio** with 7-Channel Weather/All Hazards - For security, be alert to conditions that affect you. This unit offers Specific Area Message Encoding (S.A.M.E.) technology which preprograms the device to receive only those warnings that apply to your local area. You can choose state, county, and/or nearby counties. Offers 30 programmable county codes, AM/FM tuning, date, time, alarm functions, and automatically switches from AM/FM to pertinent all-hazard alerts. Drift-free PLL and easy-to-read blue, backlit LCD. You get a convenient, 10-alert memory, and can add, edit, and remove unwanted alerts at any time. Operates from the supplied AC power adapter or (4) AA Batteries (not included) ..... **\$59.99**



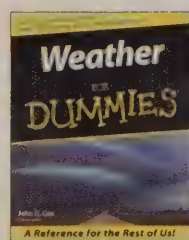
## 74-250C All-hazard Alert Handheld Weather Radio with S.A.M.E. Technology

Get 24-hour, up-to-the-minute weather and hazardous-conditions information. Receives all seven NOAA weather channels and has SAME (Specific Area Message Encoding) technology. Digital panel displays up to 56 messages. Includes a 12/24 hour dual alarm clock with snooze and nine memory settings. Built-in fahrenheit/celsius thermometer with freeze warning alert. Waterproof for outside use. Requires two "AA" cells (not supplied) and supports in-unit battery charging of two NiCD or NiMH "AA" cells (not supplied). Battery low indicator. Only 4"h x 2.75"w x 1"d ..... **\$49.99**

### Weather for Dummies

Are you dazzled by dramatic displays of thunder and lightning - and wonder why these forces of nature occur? This guide offers easy-to-understand explanations about meteorological concepts, from jet streams to tornadoes and El Niño. Inside, you find experiments and activities you can do at home, plus insight on smog, the greenhouse effect, and more!

**WIE WXFORDUMMIES \$21.99**





# GARMIN® GPS



GPS-60

GPS-MAP60

GPS-72

**GPS-60 Personal Navigator** – A 12 channel GPS receiver with WAAS. Accepts 1 Mb downloaded points of interest from MapSource® CD-ROM. Separate USB and serial port interfaces. Points of Interest data; Stores 500 waypoints and 50 routes; 10,000 points track log to retrace your path; TrakBack™ to a selected point function; Celestial tables for best fish and hunt times; Audible beeper alarm; Up to 28 hours on 2 AA alkaline batteries. Dim: 2.4" w x 7.1" h x 1.3" d ..... **\$159.99**

**GPS-MAP60 Map Navigator** – 12 channel GPS receiver with WAAS. Basemap with automatic turn-by turn routing capability shows cities, interstates, major roads and more. Download 24Mb of data from optional MapSource® CD for greater map detail. Includes MapSource® Trip and Waypoint manager for transferring waypoint, route and track data between your GPS and PC. Stores 500 waypoints and 50 routes; 10,000 point tracklog to retrace your path; TrakBack™ to selected point function; Celestial tables for best fish and hunt times; Audible beeper; Up to 28 hours on 2 AA alkaline batteries; Separate USB and serial port interfaces. Dim: 2.4" w x 7.1" h x 1.3" d ..... **\$219.99**

**GPS-72** – A low-cost, but precise land and marine positioning using WAAS data. 500 name and graphic waypoints, 50 reversible routes; Backlit high-contrast, gray-scale display with "large number" option; Latitude/Longitude, UTM, Loran TDs, Maidenhead, MGRS and user grid formats; Arrival, off-course, clock and proximity alarms; 1 MB memory for MapSource data; Trip computer with odometer, stopped time, moving and overall average, total time, maximum speed ..... **\$129.99**

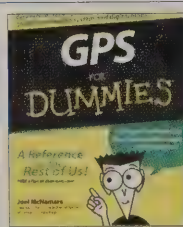
## RINO-120 GPS Enabled Handheld for FRS & GMRS

Communicate up to 2 miles using the FRS radio function, or 5 miles, using GMRS. 14 channels, 38 squelch codes; VOX; Voice scrambler; "Silent" call mode. The 12-channel GPS function provides position accuracy of less than 10 ft. and position reporting using FRS Waypoint storage, TrakBack, multiple position formats and built-in trip computer. Basemap of the Americas (major cities, highways, thoroughfares, rivers, lakes, coastlines, borders, and railways); 8MB memory for downloadable cartography from MapSource CD-ROMs; Uses 3 AA's .... **C/O \$199.99**



## GPS for Dummies

Here's what you need to make the most of your portable GPS unit and of all its amazing features. Venture into new places with confidence, explore the treasure hunting sport called geocaching, and much more!



**WIE GPSDUMMIES \$21.99**



**eTrex (left)** – 12-parallel-channel GPS receiver and internal patch antenna packaged in a waterproof case. Side operating buttons for larger display area. Simple menus and logical operation. Compass or map navigation; Zoom keys; 500 user waypoints; 1 route with 50 waypoints; Resettable trip computer; Auto track log, 10 saved tracks to retrace a path; Up to 22 hours use with (2) AA alkalines. Dim: 4.4" h x 2" w x 1.2" d; 5.3 oz **C/O \$89.99**

**eTrex SUMMIT Hiking Companion (right)** Similar to the eTrex but includes a barometric altimeter and electronic compass .... **C/O \$129.99**

**GEKO-201** – Small, lightweight and waterproof. Simple but powerful operating system allows more waypoint and route storage, as well as available PC and external power connectivity, and built-in WAAS capability. Has a configurable trip computer and 10,000 trackpoints, as well as PanTrack™ and TracBack®. 500/20 x 125 waypoint and route storage; Automatic 10 track storage; Five buttons (one-hand use); 64 x 100 pixel, high contrast display; Includes four interactive, outdoor games; 12-hour operation on (2) AAAs. Dim: 3.9" h x 1.9" w x .96" d; 3.1 oz ..... **C/O \$99.99**



## GPS ANTENNA

### GA-27C Low Profile Remote Automobile GPS Antenna



This small, waterproof GPS antenna enhances the performance and reliability of your GPS unit. Comes with a magnetic mount for the outside of your vehicle, & a suction cup mount that holds antenna in place against the inside of your windshield. Comes with 8 ft. of cable & MCX connector. Dim: 0.7" h x 2" w x 2.7" d ..... **\$89.99**

## GPS Navigator Navigation, plus APRS Ready for KENWOOD

KENWOOD  
Transceivers  
Not Included



TH-D7A(G)



TM-D700A



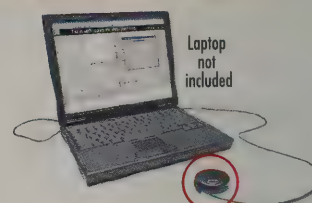
TM-D710A



G5

**G5** – The ultra bright non-glare 5 inch TFT TOUCHSCREEN is easy to view in any lighting condition. Comes preloaded with highly detailed Tele Atlas street maps of North America on a 2 GB SD memory card and gives you color 2D and 3D views with turn by turn voice prompts in 14 different languages. Includes a Kenwood-ready cable and exclusive APRS interface built right into the G5. This bi-directional RS-232 APRS interface is balanced for ALL current APRS ready Kenwood Radios. Other features include: detachable 12v power cable, bi-directional NMEA 183 serial port, external antenna port, NTSC/PAL video and audio input, PC connection for software updates via USB port, off road, fastest route, and least turns calculations with turn details. Routing instructions include current road name and house number with road name and the next turn command. "Drive Me Home" rapid command. Intuitive touch screen address lookup with millions of points-of-interest. Includes all-in-one navigation and mobile navigation software, built-in speaker, lithium-ion rechargeable battery and car charger, SD memory card, and cables. Dim: 5.5" w x 3.9" h x 1.4" d, 0.86 lb ..... **\$649.99**

See the full G5 brochure at: [www.avmap.it](http://www.avmap.it)



Laptop  
not  
included

**GPS-18 Package** – Turns a laptop into a street navigator using WAAS-enabled GPS sensor. bundled with nRoute™ and City Select® North America with detailed maps of the U.S. and select cities in Canada. Automatically guides with turn-by-turn directions and voice prompt.

**GPS-18PC DLX** – Serial connection sensor, 12V cigarette adapter, magnetic base, windshield mount and software. 2.4" dial. x 0.75" h; 6.5 oz.. **\$129.99**

**GPS-18USB DLX** – USB connection sensor, magnetic base, windshield mount and software. Uses PC's power. 2.4" dial. x 0.75" h; 3.5 oz..... **\$129.99**



FORETREX 101



FORERUNNR 201

**FORETREX 101 Personal GPS Navigator** Rugged, lightweight, waterproof and wristband mounted for the sportsman. Provides accurate position data, extensive waypoint storage, reversible routes, track info, and TracBack technology. PC waypoint, route and track management. Uses (2) AAAs, 15 hours of operation. Dim: 3.3" w x 1.7" h x 0.6" d; 2.6 oz ..... **\$129.99**

**FORERUNNR 201 GPS/Personal Training Device** – For athletes, runners and walkers. Calculate speed, distance and pace. Mark locations, look up and navigate to points, retrace or reverse, normal route. Downloadable performance-tracking software to analyze activity over time. Transfer data to a PC, for review. Includes wristband, A/C charger with PC interface, manual and quick start guide. Dim: 3.3" w x 1.7" h x 0.6" d; 2.75 oz ..... **\$149.99**



## TV ANTENNAS

**PROSTAR® 1000 VHF/UHF/FM Antennas** Features die-cut impedance correlator that allows close spacing of antenna elements. Manufactured from high tensile aluminum for a strong, compact antenna that will better withstand strong winds and ice loading. Protected with polymer finish.

**PR-7032 Far Suburban** – 33 active elements (13 VHF, 20 UHF); 103.25" boom..... **\$89.99**

**PR-7042 Fringe** – 43 active elements (17 VHF, 26 UHF); 149.75" boom..... **\$149.99**

## TV CABLE



TV-2900



**RG-6 75 ohm TV Coaxial Cable** – Cellular poly dielectric, #20 copperweld center conductor, 100% aluminum foil shield and 40% aluminum braid shield provides low-loss, good conductivity, flexibility and high tensile strength. Weather-proof F-connectors are installed on each end.

**CX-0625** – 25 ft. length..... **\$10.99**

**CX-0650** – 50 ft. length..... **15.99**

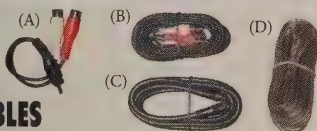
**CX-0675** – 75 ft. length..... **19.99**

**CX-6100** – 100 ft. length..... **24.99**

**TV-2900 Matching Transformer** – Adapts 75 ohm coaxial cable with F-connector to a 300 ohm TV antenna or TV set. Includes F-connector and weatherproof boot..... **\$2.99**



## VANCO. CABLES



**AC-3F Audio "Y" Adapter (A)** – (1) RCA Plug to (2) RCA Jacks, Shielded, Red/White, 6 in..... **\$1.99**

**AC-272E Stereo Extension Cord (B)** – Shielded 6 ft. audio extension cord with color coded RCA plugs and jacks..... **C/O \$2.99**

**FF-3 Video Cable (C)** – 3 ft. high quality TV/VCR cable made of low loss 75 ohm RG-59 cable with molded "F" connectors..... **\$1.99**

**FF-6 Video Cable (C)** – 6 ft. high quality TV/VCR cable made of low loss 75 ohm RG-59 cable with molded "F" connectors..... **C/O \$2.99**

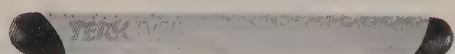
**SPW-52 Speaker Wire (D)** – 25 ft. 18 gauge, clear flexible jacket with polarity stripe..... **\$8.99**



## AUDIO/VIDEO SWITCH

**AVW-089 3-Channel Audio/Video Switcher** Accepts audio (left/right) and video input from 3 sources switchable to a single output..... **\$8.99**

## TV ANTENNAS

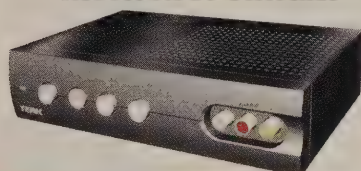


**TV-55 Amplified Out/Indoor TV Antenna** – Uses a helical, coiled broadband single element engineered for clear, powerful reception of HDTV broadcasts. Receives both UHF and VHF frequencies from 54-806 MHz. Built-in ultra-low noise 10dB amplifier (switch in or out for best reception). Mounts in or outdoors. Includes a AC adapter and mounting hardware. Dim: 46"w x 3.5"h x 2.25"d..... **\$99.99**

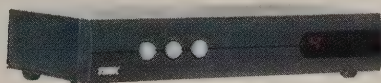


**HDTV-I Indoor UHF/VHF/HDTV Antenna** Utilizes long periodic-tuned elements and dipoles for receiving both UHF and VHF HDTV broadcasts. Tuned for optimum reception – high front-to-back ratio eliminates reflected signals and high gain picks up distant signals. Dim: 13.5"w x 9.1"h x 16.5"d; 42" high with dipoles extended.... **\$39.99**

## AUDIO/VIDEO SWITCHES

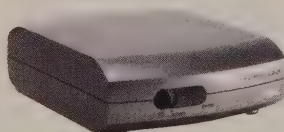


**MOD-41 RF Modulator** – Connect up to four A/V sources to any TV with no available A/V input jacks. Similar to VS4-MOD+ below, without S-Video jacks or IR remote. Dim: 6.5"w x 2"h x 4.25"d.... **\$39.99**



**VS4-MOD+ RF Modulator** – Allows connections of multiple A/V components to a TV with no available A/V (RCA) input jacks. Provides inputs for up to four A/V sources (video games, DVDs, PVRs, VCRs, satellite receivers and camcorders). Converts A/V sources to VHF for viewing on channel 3 or 4 on any TV. Compatible with your infrared remote control to remotely switch between A/V sources. Has "F-type" antenna and cable inputs, and RCA and S-Video input and output jacks. AC wall adapter included. Dim: 9.75"w x 2"h x 5"d..... **C/O \$29.99**

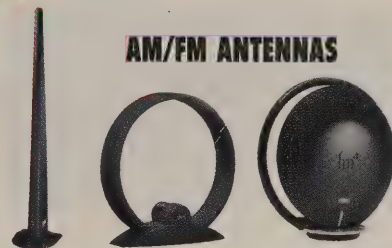
## TV VOLUME REGULATOR



**VR-1 TV Volume Regulator** – Regulates and delivers a steady audio volume level during those loud commercial breaks, through abnormally loud or quiet scenes during a movie, while channel surfing, or when switching A/V devices. Once installed, an advanced DSP system does its job automatically, without adjustment. Noise reduction reduces hiss, bass and treble are processed separately for improved dialog. Includes AC adapter and 6 ft. audio cable. Dim: 3.18"w x 3.87"h x 1.43"d.. **\$39.99**

**TERK**

## AM/FM ANTENNAS



**TOWER AM-FM Tower Antenna (left)** – Built-in amplifier with gain control improves AM and FM reception. Works with tuners and receivers with 75Ω or 300Ω FM antenna inputs. The AM connection consists of a pair of wires with U-clips. Useful 30-40 miles from broadcast transmitter .... **\$24.99**

**ADVANTAGE External AM Antenna (middle)** Passive, adjustable 530-1600 kHz AM antenna that improves reception over built-in loops. Used unattached, next to the radio. Position for best reception, then rotate tuning dial located at the center of the antenna to match the AM frequency tuned in on the radio. For best performance, connect directly to an external AM antenna input..... **\$49.99**

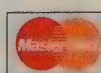
**PI-B Powered Indoor AM/FM Antenna (right)** Improves FM (88-108 MHz) reception by eliminating multipath interference and providing amplification from the built-in low-noise preamplifier. An adjustable position AM loop enhances broadcast band reception. Impedance: (FM) 75/300Ω, (AM) 300Ω. FM Gain control. AC adapter included. Dim: 6"h x 6"w x 1.5"d..... **\$49.99**

## LEAPFROGS



**LF-30S Leapfrog WaveMaster 30 Transmitter/Receiver System** – An easy-to-use, cost effective alternative to purchasing multiple A/V components. Allows remote control use of A/V signals from one source, such as a TV with satellite or DVD player, to another within your home. Transmits on 2.4 GHz band and penetrates walls, doors, ceilings and floors. Built-in IR extender enables use of existing or universal remote to control the system. Built-in modulator ensures connection to old and new TV's. Dim: 1.5"h x 7"w x 4.8"d..... **\$99.99**

**LF-IRX Leap Frog Remote Control Range Extender** – Increases range capability of infrared remote controls. Provides the power to operate A/V components through walls and floors up to 100 ft. Operates on 418 MHz for wireless install. Simply plug base in near controllable unit, then plug the receiver in remote location. Cables and AC adapters included. Dim: 5"h x 2.5"w x 4"d..... **\$39.99**



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## TOOLS & METERS



**VTTS 25 Piece Multi-Purpose Toolset** – A quality toolset for the electronic engineer and hobbyist. Includes: 4.75" universal handle, 3" extension, 9 different bits, hex adapter, (4) 1/4" drive sockets, tweezers and plastic case. Dim: 6 x 4 x 2 in. **\$9.99**

Bits: (Slotted) 1/8, 3/16, 1/4"; (Phillips) #1, #2, #3; (Star) T-15, T-20, T-25. Sockets: 4, 5, 6 and 8mm 1/4" drive. Precision screwdrivers: 4 slotted, 2 Phillips. Pliers: 4.5" mini diagonal, 5" mini long nose



**VT-SET21N 8-in-1 Screwdriver Set** – Includes 4 Phillips and 4 slotted screwdrivers. Each screwdriver fits into the handle for greater torque..... **\$4.99**



**VT-SET3N 6-Piece Electronics Screwdriver Set** Includes: T6, T7, T8, T10, T15 x 50mm sizes. Each 4.2 in. screwdriver has its own handle ..... **\$9.99**

**VT-SET Stainless-steel precision Pliers set.** 5 Pieces: Diagonal cutter, top cutter, bent nose pliers, flat nose pliers, long nose pliers..... **\$9.99**



**VT-BT6 33 piece Screwdriver Bit Set** – Includes Hex: #2, 2.5, 3, 4, 5, 6; Star: #T10, T15, T20, T25, T30, T40; Flat: 3, 4, 5, 6, 7; Phillips: 1 PH0, 2 PH1, 2 PH2, 2 PH3; Pozzi: 2 PZ1, 3 PZ2, 2 PZ3; Magnetic bit holder: 14" hex..... **\$6.99**

**VT-M468L Crimp Tool** – For RJ10, RJ11, RJ45 (4P, 6P, 8P) modular connectors ..... **\$9.99**



### AVM-2050 ANALOG SOUND LEVEL METER

- Omni-directional electret mic.
- Ranges: 60, 70, 80, 90, 100, 110, 120dB (up to 126dB)
- A and C weighting
- Battery level indicator
- Battery included
- RCA output jack
- Dim: 6.3"h x 2.4"w x 1.7"d; 0.4 lbs

**\$29.99**



**TLM-2 Test Leads** – Two leads with banana plugs. Length: 30/37 in. Rated: 1000V/15A..... **\$2.99**

**TLM-10 Test Probe set** – (4) crocodile clips, (4) 0.16 in., pins (2) 0.08 in. pins, (2) forks..... **\$4.99**

**KTF 75-piece cable-tie pack** – Contains 25 each of 3.9 in, 4.7 in. and 7.9 in. long ties..... **\$2.99**

**VT-LAMP2U Magnifier Lamp** – A 22W, circular fluorescent lamp with 1.75x magnifying glass, 41 in. arm length and table edge mount ..... **\$49.99**

### DVM-810

#### Digital Multimeter

Compact design makes this meter a perfect fit for any toolbox or even shirt pocket! It features multiple functions and an easy-to-read LCD display. Measures voltage, current, resistance, transistor and diode, 3.5 digits, 19 ranges. Battery included ..... **\$9.99**



### DVM-850BL

#### Digital Multimeter

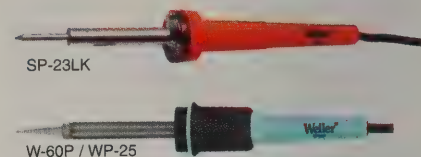
Auto polarity function manual ranging mode, data-hold function and 10 Amp overload protection. Measures DC current up to 10A, AC/DC voltage up to 600V, resistance up to 2MΩ. Diode, transistor and continuity test with buzzer. Backlit 3.5-digit LCD. Uses 9V battery (included). Protection holster and test leads. Dim: 2.6"w x 5.4"h x 1.18"d..... **\$19.99**



**370052 Digital Multi-Meter** – Features a 3.5 digit, 1/2" LCD, with polarity indicator. Measures: DC voltage in 5 ranges, 200mV–600V; AC volts: 200V and 600V; DC current in 5 ranges, 200uA–10A; Resistance in 5 ranges, 200–20k; Diode test shows forward voltage drop; Transistor test shows hFE value. Comes with 100-hour, 9V battery and plug-in test leads. Dim: 2.75"w x 5"h x 1"d; 6 oz..... **C/O \$19.99**

**CL-3 Test Lead Set** – Heavy duty, 10-pieces, protected alligator clips on each end. Five different colored pairs, 22 in. long..... **\$9.99**

## Weller SOLDERING TOOLS



**SP-23LK 25W Soldering Iron Kit** – Ideal for hobbies, kits, radios and delicate electronic work. "On" Indicator light. Supplied with three 750° tips, handy soldering tool and solder. Dim: 8-1/4 in. long, 1-3/4 oz., two-wire 6 ft. cord, 120V.. **\$19.99**

**W-60P 60W Pencil-Type Soldering Iron** – For most circuit work. 0.0625 in., 700°F screwdriver tip. Dim: 7 1/2 in. long, 2.5 oz., 6 ft. cord, 120V ..... **\$70.99**

**CT-5E7 1/4 in. Screwdriver Tip** ..... **C/O \$4.99**

**WP-25 25W Pencil-Type Soldering Iron** – For work on delicate electronics. 750°F tip temperature. Dim: 7.875 in. long, 1.75 oz., 4 ft. cord, 120V. **\$37.99**

**ST-4 3/16 in. Screwdriver Tip** ..... **\$4.99**

**ST-5 3/32 in. Screwdriver Tip** ..... **\$4.99**

**WSTA3 PyroPen® Butane Soldering Iron with Case** – Light-weight and completely portable. Operates up to 3-hours on a single charge of regular cigarette lighter butane (not included). Very fast heat-up time, ready to solder in just 30-seconds. Controlled soldering temperature is adjustable from 392° to 932°F. Supplied with tips for soldering, hot air (1202°F), and brazing..... **\$109.99**

### 7200PK Multi-purpose Soldering Gun

Compact, lightweight, but 75W for bigger work, connectors and almost any other heavier job. The flat, self-supporting back acts as a convenient rest. Includes a carrying case, extra tip and solder. 120VAC..... **\$30.99**

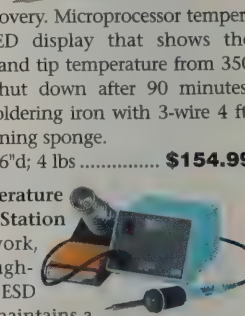
**7235 (2) Extra standard tips** ..... **\$3.99**

### WESD51 50W

**Adjustable Soldering Station** – For continuous production soldering as well as occasional use. Quick heat-up, and tip temperature recovery. Microprocessor temperature control and LED display that shows the adjustable heat setting and tip temperature from 350 to 850°F. Automatic shut down after 90 minutes. Includes power unit, soldering iron with 3-wire 4 ft. cord, stand and tip cleaning sponge. Dim: 5.9"w x 4.5"h x 3.6"d; 4 lbs ..... **\$154.99**

### WTCPT 60W Temperature Controlled Soldering Station

For production, rework, and repair of through-hole and SMT boards. ESD safe, tip temperature maintains a constant 700°F without any adjustments. Includes: Control unit, pencil-type soldering iron with 3-wire 4 ft. cord and stand with cleaning sponge. Dim: 4.5"w x 5.94"h x 3.63"d; 4 lbs ..... **\$129.99**





**Weller**



## SOLDERING

**CHT-100** Weller®Coldheat™ Pro Soldering Tool  
Heats to melts solder instantly and then cools to the touch in just seconds. Produces over 700 joints per set of (5) AA alkaline batteries (not included). High/low power settings with capabilities to tin wire as large as 12 gauge or join wire from 18 to 25 gauge. Built-in bright white LED light to illuminate your work area, and red "in use" light. Rugged polycarbonate body and HD components. Includes, 61° angle chisel tip, protective cap and storage case. Dim: 9.25"l x 2"h x 1"d..... **\$32.99**

## WAHL® ELECTRONICS ISO-TIP

**7740** Cordless Soldering Iron Kit – Provides tip performance up to 50W and over 700°F. Contains premium NiCad rechargeable battery with high-rate charging capability. Partially discharged, it will return to full capacity within 1 to 2 hours, with a complete recharge in 3 to 4.5 hours. Replaceable battery and work light. Comes with recharging stand, fine and heavy soldering tips..... **\$52.99**



**7971** SolderPro 50 BUTANE Soldering Iron – Ready to use within 10 seconds. Adjustable, 410°F to 750°F and operates up to 30 minutes on a charge of standard cigarette lighter butane (not included). Includes 1.0mm conical tip. Dim: 4-3/4 in. long.. **\$25.99**

**7974** SolderPro 70 BUTANE Soldering Iron – Adjustable, 410°F to 850°F and operates up to 120 minutes on a charge of standard cigarette lighter butane (not included). Includes 1.0 mm conical tip and a torch tip. Dim: 7-1/2 in. long. **\$39.99**



## Rosin Core Solder

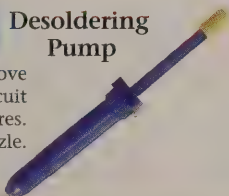
Perfect for all ham radio and other electrical applications. The 60% tin, 40% lead composition, .040" diameter and 374°F melting temperature allows quick and secure, non-corrosive connections. Approximately 8 ft. (1/2 oz) in handy dispensing tube.. **KES 82-5000-0004 \$2.99**



## Desoldering Pump

The easy way to remove solder from printed circuit boards terminals and wires. Non-stick Teflon® nozzle. Dim: 13.2 in. long.

**VEL VT-D2 \$3.99**



## GROTHE ELECTRONICS



## SIRENS & HORNS

**VS-2** Emergency Vehicle Siren – For the volunteer fireman. A quality-built wail-yelp alarm that delivers a 120dBa sound level at 4 ft. with a frequency range of 600 to 1200Hz. Pre-wired with a 3-position switch (Yelp-Off-Wail). Includes a waterproof horn speaker, 10 ft. cable, mounting bracket and hardware. 12VDC @ 1.5A; 2.7 lbs..... **\$89.99**

**VS-3** Vehicle P/A and Airhorn with Rebroadcast Powerful airhorn sound with 4 different sounds (no siren) Delivers 120dBa level at 4 ft. Locking down the microphone with the supplied rubber band, you can monitor sound from a mobile rig via the speaker outside. Includes horn speaker, microphone, electronic center, 10 ft. cable, mounting bracket and hardware. 12 VDC @ 1.5A..... **\$129.99**

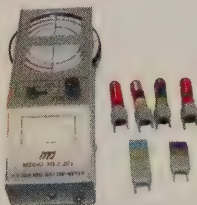
**VS-4** P/A Emergency Vehicle Siren – Contains P/A, rebroadcast, wail, yelp, pulse and airhorn. P/A over-ride features, plus volume control of all siren modes. Restricts output when operating in people places. Includes horn speaker, microphone, electronic center (3 x 3.5 x 2 in.), 10 ft. cable, mounting bracket and hardware. 12VDC @ 1.5A..... **\$139.99**



## VS-2LS Siren-Light Combo

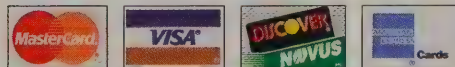
A one-unit siren and yelp alarm, revolving halogen light and window mount. Fits all cars, slides on top of car window and plugs into cigarette lighter. The power plug contains an "on" LED and three position switch to select Yelp, Off or Wail modes. 12 VDC @ 5A. Specify AMBER, BLUE or RED light. **Special Order ... each \$299.99**

## MFJ Dip Meter



**201** – Find a coil's resonant frequency. Couple it to an antenna or coax line to find their electrical length. Use it as an absorption wavemeter for measuring transmitter output, neutralizing tank circuits, or even a field strength meter. Other uses include: crystal oscillator, monitoring audio signal outputs and measuring inductance and capacitance. Solid-state, covers 1.5 to 250 MHz in six bands. It has thumb wheel tuning, color coded readout, six coils, earphone jack and battery check. Requires one 9V battery (not supplied). Dim: 2.5"w x 2.0"d x 7"h ..... **\$129.99**

## ORDER ON-LINE!



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**USE YOUR CREDIT CARD**

## KOSS



**QZ/5** Passive Noise Reduction – Isolates listener from noise sources like car and jet engines. Ideal for the race track and metal detection. Unique head-strap velcro design allows for secure fit and immobilization. 60Ω impedance; 102dB SPL/1mW sensitivity; 40 to 20,000 Hz sensitivity; Volume control and Stereo/Mono switch; Single entry, 8 ft. coiled cord with 3.5mm plug; 15 oz..... **\$49.99**

**QZ/50** Revolutionary Active Noise Reduction Reduces harmful & annoying low frequency sounds in noisy environments. Behind-the-head design provides comfort for extended wearing. Dynamic element, 30-20,000 Hz; 32Ω impedance; 98dB sensitivity; Single entry 8 ft. cord, with 3.5mm plug; Uses one AAA battery (not included); 2.5 oz ..... **\$49.99**

## QZ/99

Passive Noise Reduction

stereophone with

Mono/Stereo

Switch – Frequency

response: 40 to

20,000 Hz; Coiled,

single entry, 8 ft.

cord with 3.5mm

and 6.4mm plugs;

Sensitivity: 102dB

SPL/1mW; Impedance: 60Ω; 15 oz.....

**\$59.99**

## KTX/8

Portable Stereo-

phone – The Dynamic ele-

ments give extended

frequency response from

40 to 20,000 Hz. Foam ear

cushions for comfort and

open, hear-thru sound.

Volume control on the

cord. Collapsible head-

band design for protective

storage and maximum

portability. Reliable 3.5

mm "L" plug for improved durability. Straight, single

entry 4 ft. connecting cord.....

**\$14.99**

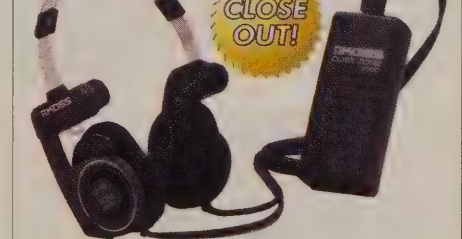
## Y-88

"Y" Cord – Delivers dual stereophone con-

nection from a single sound source. "L" plug for

improved reliability and durability.....

**\$4.99**



## QZ/2000 Noise Reduction Stereophone

Incorporates an Active Noise Reduction System to reduce annoying low frequencies. Collapsible stereophones; 15-20,000 Hz response; 5000Ω impedance; Straight dual entry 4 ft. cord; Control case and adjustable headband; Input jack for audio play-through and adapter for in-flight use; Includes 2 AA's; 2.3 oz..... **Closeout \$99.99**



**MFJ**

**105C** 24 Hour Quartz Wall Clock - Black, 10 in. diameter face, sweep second hand. Uses one "AA" battery..... **\$24.99**

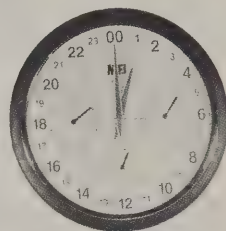


**112B** DX'er's World Map Clock - Shows time at any QTH throughout the world on an attractive backlit LCD world map. Also shows day, month, date and year. Select 12 or 24 hour time, daylight saving time. Dim: 4.25"w x 3.3"h x 2.25"d ..... **\$29.99**



**125** DX'er's Dream Quartz Wall Clock

The 12 in. diameter face shows 24-hour time. Three independently settable table dials show 12 hour time, day and date. Uses a single "AA" battery ..... **\$34.99**



**Small 24-Hour Clocks** - A Dual Clock with separate UTC and local time display modules, and a Single Clock with 24-hour time only. Heavy brushed aluminum frame, 5/8" high LCD numerals, sloped face. Flashing seconds colon, battery included.

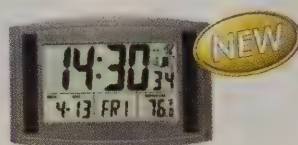
**107B** (left) Single - 2.25"w x 1"h x 2"d.... **\$12.99**

**108B** (right) Dual - 4.25"w x 1"h x 2"d.... **\$21.99**



**113** 12/24 Hour Desk Clock - Switchable 12/24 hour display; 9-minute ID timer; Alarm function; 9V battery back-up for power failures; 110 VAC, 60Hz. Dim: 9"w x 4"h x 2.5"d ..... **\$19.99**

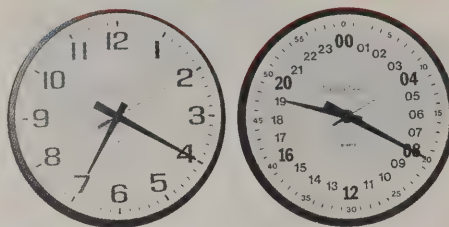
**118** Jumbo LCD™ 24/12-hour Clock - 1.25 in. high with high contrast LCD. Shows year, month, date and day in four different languages. Includes 100 year calendar and flip stand. Uses one "AAA" battery. Dim: 5.75"h x 3.375"w x 0.5"d ..... **\$29.99**



**123B** Solar Powered Atomic LCD Clock

No need for batteries or to set time! Receives WWVB signal. Display is a whopping 3.5"h x 6.25"w with huge 2" time digits. Choose 24 or 12 hour time. Has indoor temperature, running seconds, month/date and day-of-week displays. Attractive silver metallic looks fantastic on the wall or desk mounted in the shack or office! Dim: 9.5"w x 6.25"h x 1"d. .... **\$79.99**

*Benjamin Michael Industries*  
INC.



**973A** - Battery operated 24-hour quartz controlled clock with sweep-second hand. The 12 in. diameter dial allows excellent visibility. Black textured case and glass crystal. Operates on one "AA" battery Dim: 14" diameter x 1.75"d..... **\$49.99**

**972AD** - Same but 12/24 hour dial ..... **\$27.99**

## Gift Certificates

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even online at [www.aesham.com!](http://www.aesham.com!)

## PDK Technologies



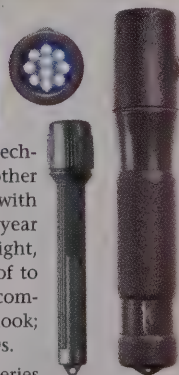
**LITE FLARE®** Emergency Signaling Device Eliminates the fire and environmental hazards of using incendiary flares. No fumes, burns or risk of igniting spilled fuel or roadside foliage. Approaching drivers can see LiteFlare's flashing super-bright red LED lights from more than a mile away. Operates over 400 hours on just two included/replaceable AA batteries. Durable, the LiteFlare® stands up to repeated drive overs and the molded plastic case resists snow, water, and fuel spills. This palm-sized product comes as a Multi-pack of three units in a plastic case that fits handily into motorcycle storage compartments, safety boxes, or trunks. Dim: 4.25"l x 3.8"w x 1"d; 6 oz ..... (3 pack) **\$29.99**



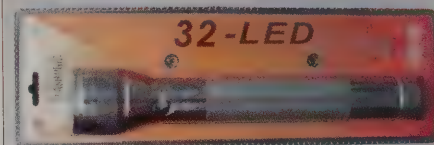
Modern flashlights using LED technology. Lights an area like no other flashlight! 25-day batteries (with diminishing brightness); 11-year (typical), solid-state LED's; Bright, diffused white light; Waterproof to 2'; Shock-proof, high impact composite case with lanyard and hook; 3 year warranty, including LEDs.

**LW-2000** - 3 AA alkaline batteries (included) power 4 LEDs. Dim: 7.75" long, 1.25" diameter ..... **C/O \$19.99**

**LW-4000** - 3 D alkalines (not included) power 10 LEDs. Dim: 10.75" long, 2" dia. .... **C/O \$39.99**



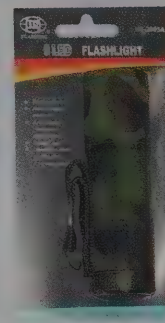
## HOUSE of DEALS LED Flashlights



FL-3232T



FL-8211B



HS-2005A

**FL-3232T** 32-LED Flashlight..... **\$24.99**

- Sturdy, metal body
- Dim: 12 x 2-1/4 in.
- Powered by (3) "D" batteries (not included)

**FL-8211B** 11-LED head/bicycle Lamp..... **\$9.99**

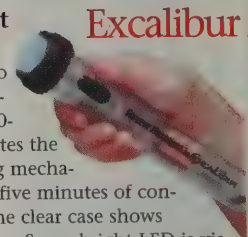
- 11 White & 2 Red blinking LED's
- Wide beam
- Adjustable head strap & bicycle attachment
- Dim: 2-3/4"w x 2"h x 4"d
- Powered by (3) "AAA" batteries (included)

**HS-2005A** 9-LED Pocket Flashlight.... **\$6.99**

- Sturdy, 3-5/8 x 1 in. camo metal body
- Powered by (3) "AAA" batteries (not included)

## Forever Flashlight

**H-423** - The last flashlight you'll ever need to buy! It never needs batteries or bulbs! Just a 30-SECOND SHAKE activates the electromagnet charging mechanism giving you up to five minutes of continuous bright light. The clear case shows mechanism in operation. Super bright LED is visible for up to one mile. Great for cars, boats, campers and emergency kits. Waterproof & floats. Dim: 7.375" long x 1" dia.; 5.6 oz ..... **C/O \$19.99**



**LW-3000** - Like the LW-4000 (left), but smaller. Three C alkalines (not included) power 7 LEDs. Dim: 8.75" long, 1.625" diameter ..... **C/O \$29.99**

**LW-HT Illuminator™** Head Torch - 1"-wide adjustable straps secure light to the head. Up/down adjustable. 4 high-intensity LEDs powered by 3 AA batteries (not included) provide super-bright light visible for over one mile, and over 330 hours. **C/O \$24.99**



**LW-PB** PocketBright™ Flashlight - Includes key ring, neck lanyard and velcro patches. Single, high-intensity LED, powered by 2 included

Lithium batteries, provides over 50 hours of light that can be seen across a full-sized room.. **C/O \$9.99**







## ELECTRONIC LAB KITS

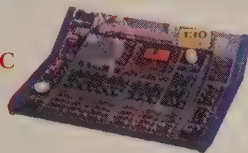
Educational • The fun way to learn about electronics and the wonders of science • Safe and Solderless using spring coil connections and powered by AA batteries • Illustrated manuals for easy project construction • No experience required!

### 30 in 1 ELECTRONIC LAB KIT



Kit contains everything you need to build a Radio, a Burglar alarm, Water detector, Morse code practice circuit, Simple computer circuits and much more ..... **VEL EL-301 \$39.99**

### 130 in 1 ELECTRONIC LAB KIT



Built a Radio; AM broadcasting station; Electronic organ; Kitchen timer; Logic circuits and much more. Comes with built-in speaker, 7-segment LED display, two integrated circuits and rotary controls ..... **VEL EL-1301 \$89.99**



### 300 in 1 ELECTRONIC LAB KIT

300 exciting electronic projects: Radio; IC organ; Burglar alarm; Battery checker; Delayed Timer; Electronic Game; Voltage controlled amplifier; Multiplier; Multiple counter; Light dimmer; Tone burst generator; Audio signal trace; Electronic candle; Voice level meter; Metal detector; Rain detector; Voltage drop alarm; Logic checker; Function generator and many more ..... **VEL EL-3001 \$129.99**



The Sticky Pad holds objects in place on your vehicle dash. No adhesives or magnets. The back of the pad allows it to stay anywhere you place it while also being movable. Durable, reusable.

**STI 13810** – Dim: 7.25 in. x 4.13 in ..... **\$5.99**

**STI 13820** – Dim: 8.75 in. x 6.875 in ..... **\$9.99**

## BUSHNELL

Bushnell makes it easy to accurately measure speed with the Velocity™ speed gun. Very easy to use with its point-and-shoot operation. The Velocity™ speed gun boasts ±1.0mph accuracy. The Velocity™ can track the speed of a ball from 100 feet. It's the ideal tool for tracking everything from race cars to pitching speeds. Velocity™ gun has a 6–110mph range for baseball, softball and tennis. It also has a 6–200mph range for auto racing.

**10-1911 Velocity™ Speed Gun** – Easy-to-use, point and shoot pistol grip; Large, clear LCD display; Displays fastest speed once trigger is released; ± 1 mph accuracy; Operates on two "C" batteries. Dim: 4.3" x 8.4" x 6"; 13 oz ..... **\$99.99**



## BOUNTY HUNTER METAL DETECTORS

### METAL DETECTORS

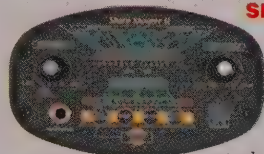
#### LAND STAR

Boasts more features than other costly detectors. Includes a Bounty D-Tech™ open-face search coil, advanced microprocessor electronics, 3-tone discrimination and Ground Trac® retune. A multi-function LCD and touchpad control make it equally at home relic hunting, coin shooting, or gold prospecting. Set the notch to reject items, or let "Auto Notch" detect coins 12 in. deep.. **\$319.99**



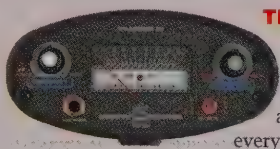
#### FAST TRACKER

Newcomers to treasure hunting should not be shortchanged when it comes to features – or quality. That's why there's the Fast Tracker™. It offers 7 in. Bounty D-Tech™ search coil (adjustable angle), dual-tone audio discrimination, motion all-metals mode, auto ground balance, low-battery alert, built-in speaker, headphone jack, and lightweight S-rod comfort-grip handle with stand..... **C/O \$69.99**



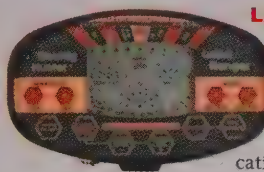
#### SHARP SHOOT II

Treasures missed by generations won't escape the Sharp Shooter II™. Digital LCD, touchpad control, and interchangeable Bounty D-Tech™ search coil. Also features 3-tone audio discrimination, selectable auto/manual notch level, auto ground balance, battery indicator, S-rod comfort-grip handle with stand, headphone jack, and built-in speaker ..... **\$269.99**



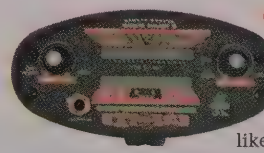
#### TRACKER IV

The optimum combination of power, ease-of-use, affordability, and big finds every time. The Tracker IV™ is built with a fully-submersible 8 in. Bounty D-Tech™ search coil, sensitivity meter, built-in speaker, headphone jack and battery indicator. Tracker IV features three different user-adjustable operating modes: Motion All-Metals Mode, Full Discrimination, and Tone Discrimination. **\$129.99**



#### LAND RANGER

Offers many high-end features for the serious detectorist. Designed for every metal detecting application at a pro level. Touchpads keep all modes at quick and easy access while the LCD emits a constant reference source maximizing every possibility for finding treasure. It features an 8 in. waterproof, interchangeable search coil and SmartTrac® ground control ..... **\$399.99**



#### QUICK DRAW II

The Bounty Hunter Quick Draw II™ metal detector packs many powerful features, like an advanced Zilog Z-86 circuit, for superior discrimination and control. Also includes waterproof Bounty D-Tech™ search coil, three levels of iron discrimination, both target ID and depth readout, sensitivity control, full discrimination, auto and variable notch, and low battery indicator. Detects up to 10 in. deep and larger objects up to 5 ft ..... **\$229.99**



#### TIME RANGER

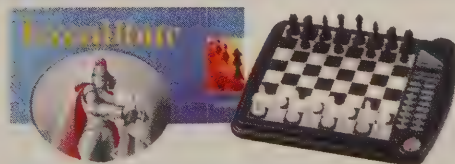
Recover more relics and valuables from the past then ever before. The Time Ranger's powerful circuitry and smooth operation combine to deliver absolute performance. The innovative Sniff-Mode can be used in specialized applications when rejection or acceptance of a particular object is desired ..... **\$499.99**



### BOUNTY HUNTER ACCESSORIES

**CARRY BAG** Padded Carrying Case – Protects metal detectors from the elements, in storage and transit. Rugged, double-stitched, nylon construction. Includes outside zip-pocket ..... **\$29.99**

**10" COIL** 10-inch Magnum Coil – Adds extra depth for relic and cache hunting ..... **\$49.99**



#### 908 Talking Electronic Chess Computer

Go up against this chess pro for a challenging game! Magnetic board and chess pieces – pieces store conveniently in compartment under board. Expert strength – estimated 2000 rating; Speaks to player in English, French and German. Includes special teaching and coaching features. 136 selectable levels from beginner to expert. Easy-to-read LCD shows how much time each player has on dual clocks, every move for both player and computer, move counter, automatic scoring, and info mode (what computer is "thinking"). Auto shut-off with memory save; selectable opening lines for play and learning, and lots more; operates on 3 AA batteries. Dim: 12" w x 1" h x 9.98" d; 1.75 lbs..... **\$59.99**

**Order Now Toll Free  
from any AES Location**







## COD ORDERS

Minimum COD order is \$50.00 in merchandise, shipment via UPS Ground only (no air or parcel post). The flat-rate, plus a \$9.00 COD fee per package applies. Payment by money order or certified check only, not cash.

## DAMAGED ITEMS

If you discover a damaged shipment, **THE CARRIER SHOULD BE NOTIFIED IMMEDIATELY**. The merchandise should not be returned to us until notified to do so by the carrier. All packaging materials must be retained including styrofoam peanuts, inner and outer cartons, labeling, etc. for inspection by the carrier or the claim may be denied. With shipments properly packaged (as all our shipments are), the ultimate responsibility for delivery in good condition rests with the carrier.

## DEFECTIVE ITEMS

Defective items should be returned to AES or the manufacturer for warranty repair or replacement, at the manufacturer's discretion. After processing, we will return it via ground method, at our expense in the 48 contiguous states. If you receive defective equipment, call our Customer Service Department at 414-358-4087 for instructions. It is the customer's responsibility to return the defective merchandise to AES or the factory. The manufacturer's warranty does not include reimbursement for freight charges. Canadians please see "Canadians Note:" under TRADE-INS.

## INTERNET ORDERS

The customer may order products directly on our web site via our internet order form. If the customer does not have access to the web please call in or mail your order to any AES location. See page 134 for order blank.

## PAYMENT

Accepted forms of payment are electronic bank transfer (add \$30.00 Wire Transfer Fee), certified check, personal check, money order, credit card (VISA, MasterCard, Discover, American Express, IMPAC), or COD. The customer's choices of payment methods may depend on amount of purchase or destination of shipment.

## PRICING

We will pass on decreases in pricing to our customers whenever possible. Due to foreign currency fluctuations, promotions, manufacturers' specials, etc.; prices may vary, so be sure to confirm prices when ordering. All prices and specifications are subject to change without notice. AES is not responsible for typographical errors or omissions.

## REFUNDS

Amounts under \$5.00 are not refunded unless requested in writing to the Milwaukee headquarters within 12 months.

## RETURNS

In order to maintain the lowest possible prices, we do not offer a *free trial* or *evaluation period* on new equipment. If permitted, an **authorized** return of merchandise for credit (it must be like new with all original packaging) will be subject to a **Minimum 15% Restocking Fee**. The item must be returned within **10 days** after receipt, prepaid, with a copy of the purchase invoice and a letter describing the reason for the return. We reserve the right to charge back actual outbound freight on returns from flat-rate or prepaid shipments. No returns on antennas, towers, cable, items dropped-shipped from the manufacturer, audio or video tapes, kits, books, or computer software. Canadians please see "Canadians Note:" under TRADE-INS.

## REFUSED ORDERS

If a package is refused by the customer the actual outbound freight and actual inbound freight charges by the carrier will be deducted from the return. Packages returned by the customer unopened will only be subject to actual outbound freight. AES also reserves the right to charge a minimum 15% restocking fee to the return.

## PACKING FOR SERVICE AND/OR RETURN

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 lbs., 3 in. of foam or crumpled paper should be used instead of polystyrene edge protectors. **Send your package insured.**

When you send your well-packed parcel to AES, be sure to include a letter inside the package stating your call, name, address, e-mail address, phone and reason for return. Do not rely on information written or taped on the outside of the carton.

## SHIPPING

Shipping charges, which include adequate insurance, are based on the Order Total at the time of the initial shipment (COD fees not included). The order amount on which charges are determined is pre-coupon and pre-tax

(see chart on this page for rates). Cancellations on partially shipped orders will not affect the shipping charges. All back-orders from partially shipped orders are shipped PREPAID at the expense of AES via UPS Ground Service to the contiguous 48 states only. Shipping calculations on Ground method to the contiguous 48 states have been simplified by utilizing flat-rate categories (see chart on this page for rates). Other expedited methods and any USPS methods are charged at regular rates without any credit for ground rates. CODs are not accepted for these faster methods or USPS.

Shipments to APO/FPO are via Priority Mail. Orders exceeding ground method weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges are taxable in WI, OH, FL & NV.

To insure orders arrive quickly, AES stocks items at all four locations. Occasionally, an item will be temporarily unavailable at certain branches, due to various reasons. In this case, AES will ship the order from a location that has the needed item.

## TRADE-INS - CALL BEFORE SENDING

Amateur Electronic Supply accepts trade-ins on new equipment purchases, the worth of which is determined by the electrical and physical condition of the item. Estimates are given assuming the trade-in is in good electrical and physical condition. If it is not, a deduction will be made.

To facilitate a trade-in, the customer can choose one of the following: (A) Purchase the new item(s), send in the trade for evaluation, and have the trade-in amount refunded or credited. (B) Send in the trade and have the order held until the trade-in amount is determined.

When shipping trade-ins for evaluation, use a sturdy carton (double boxing is recommended) and plenty of packing material. Ship PREPAID & FULLY INSURED. Do not use Bus or Parcel Post. Collect shipments not accepted.

AES assumes no responsibility for damage in transit or for filing of damage claims. Canadians, inquire locally about taxes and/or customs charges before releasing your shipment.

**Canadians Note:** Returned equipment not originally manufactured in the U.S. will be subject to valuation and custom charges, plus broker's fees. Check customs before shipping anything to us, including new equipment for warranty repair. We will not accept any shipments from outside of the U.S. unless all fees are paid in advance.

## BIDS & PURCHASE ORDERS

AES accepts written and signed Purchase Orders from well rated D&B companies, military, schools, colleges, universities and federal, state, county and city Government agencies.

We welcome the chance to bid on your requirements and search the Internet daily for requests from all Government agencies. We are registered with FACNET and accept Government I.M.P.A.C.\* charge cards. For more information please contact any AES location.

## SPECIAL ORDERS

Occasionally manufacturers offer items that AES doesn't stock. However, we can order these items for you. Please contact sales: info@aesham.com for more information on special orders. Please note that once a special order is placed it cannot be canceled or returned.

## INTERNATIONAL ORDERS

AES can ship orders internationally. However our domestic policies do not apply to these orders. Payments will need to be made via bank wire transfer. We charge the actual freight amount, and the buyer will be responsible for all local fees and duties. To get a quote for an international order please contact info@aesham.com for complete details. All international regulations apply.

## EU COUNTRIES

Due to current European Union (EU) regulations, AES CANNOT export most products to EU member countries and members of the European Economic Area (EEA).

### FLAT RATE SHIPPING via UPS Ground in the contiguous 48 States

#### AMOUNT OF ORDER

#### SHIPPING CHARGES

Up to \$100.00 .....	\$4.99
\$100.01 to \$500.00 .....	\$9.99
\$500.01 to \$1499.99 .....	\$14.99
\$1500.00 & UP .....	PREPAID

*Flat Rate Does Not Apply To Drop Shipments or  
UPS Ground Shipments to Alaska or Hawaii*

**Flat Rate Advantage - No Penalty for Number of Cartons or Weight!**

**UPS cannot deliver to PO Boxes**



# Our Experienced Sales Staff at your Service...

**MILWAUKEE, WI** 414-358-0333 • 1-800-558-0411



CARL W9CLH



GARY L. KA9YTB



PAUL W9KHO



JIM WJ9P



SANDY K9WOOF  
AES SALES DOG



TOM W9TJP  
National Sales  
Manager



JEFF N9EDQ  
Assistant Manager



RAY W9KHH



GREG K9XBX

**CLEVELAND, OH** 440-585-7388 • 1-800-321-3594



BEN AA8AH  
Store Manager



MIKE KC8NMW  
Assistant Manager



PHILLIP KB8GA



MATT KB1LCS

**LAS VEGAS, NV** 702-647-3114 • 1-800-634-6227



LUKE KK7XX  
Store Manager



JULIO KP4UZ  
Assistant Manager  
Hablo español  
Ich spreche Deutsch



SQUEAK AD7K

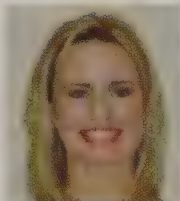


ART K7ZE



BILL W6EIO

**ORLANDO, FL** 407-894-3238 • 1-800-327-1917



CHARITY KF4RQY  
Store Manager



GRANT K4IQW  
Assistant Manager



EDDIE KD4RAZ  
Hablo español



ERNE K1HO



GEORGE K2WO



JIM AA9LW



# CALL 414-358-4087 for SERVICE

Unlike some dealers, when you purchase a new radio from us our Service Department is able to provide you with outstanding technical support. Our technicians have decades of cumulative experience in the Ham Radio service field.

## Warranty Service

Please refer to manufacturers' warranty for information about warranties. Radios that are purchased new from AES and qualify for warranty will be repaired at no charge by AES or the manufacturer (DOA's may be replaced).

## Out-Of-Warranty, Late Model Equipment

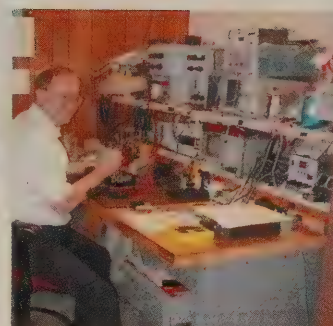
Whether the item was purchased from us or not, we will attempt to service it, provided service parts are still available. Before shipping your out-of-warranty items, arrangements must be made by phoning the Milwaukee Service Department at 414-358-4087.

## Shipping Equipment for Service

Before sending your item, make sure you contact the nearest AES location and find out the time frame for repairs. If you are concerned about time limitations, this will help you determine where to send the repair and how long your radio will be out.



MILES, K9HMQ (SERVICE MANAGER)  
(Milwaukee Store)



RICK, WB9HKE  
(Milwaukee Store)

Always include the following along with the item being shipped:

- a detailed note describing the problem(s)
- your address, day-time phone number, and email address
- a copy of the original invoice, if item is still under warranty
- the method of payment (see Policies page for options)

After packing your item securely in a box with ample packing materials (foam, styrofoam spacers, etc.), mark the shipping label "Attn: Service" and always adequately insure your items.

## Labor Rates

- \$60 per hour for Out-Of-Warranty Service
- \$80 minimum on HF/VHF Base Stations
- \$60 minimum on VHF Mobiles and Handheld Transceivers
- Rates do not include Parts, Return Shipping or Handling Charge

## SHIPPING INFORMATION

### FLAT RATE SHIPPING via UPS Ground Method in the Lower 48 States

#### AMOUNT OF ORDER

#### SHIPPING CHARGES

Up to \$100.00 .....	<b>\$4.99</b>
\$100.01 to \$500.00 .....	<b>\$9.99</b>
\$500.01 to \$1499.99 .....	<b>\$14.99</b>
\$1500.00 & UP .....	<b>PREPAID</b>

*Flat Rate Does Not Apply To Drop Shipments  
or UPS Ground Shipments to Alaska or Hawaii*

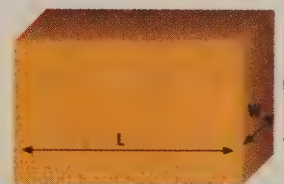
(Flat Rate Advantage - No Penalty for Number of Cartons or Weight!)

### EXCEPTIONS TO RATES ABOVE

Optional UPS methods (Red, Blue & Orange) and any USPS methods are charged at Regular Rates without any credit for UPS ground rates. COD's are not accepted for these other methods.

Shipments to APO/FPO go via Priority Mail. Puerto Rico, Alaska and Hawaii can be shipped to via Priority Mail or Blue Label. Orders exceeding UPS or USPS weight, size or value limits will be shipped via Truck or Air Freight collect. Shipping charges taxable in WI, OH, FL & NV.

Please see **Policies Page** for complete information.



#### Domestic Air

$$\frac{L \times W \times H}{194} = \text{Dimensional Weight}$$

#### International Air

$$\frac{L \times W \times H}{166} = \text{Dimensional Weight}$$

## Packing

When returning heavy, delicate, and expensive equipment, it must be carefully packed in order to avoid damage caused by normal transportation dynamics. In other words, if you put your IC-756PRO, TS-2000 or AL-1500 in a box with little or no packing beneath it, chances are it will sustain some damage. When contents of packages are damaged, claims will be paid only if the carton and packing meet standards set in the International Safe Transit Association Procedure 1 and 1-A. These standards simply state that cartons and packing should provide reasonable protection to their contents. Ideally, contents should be suspended in the center of the carton by the packing material, no less than three inches on all sides for heavy items. For items heavier than 20 pounds, three inches of foam or crumpled paper should be used instead of polystyrene edge protectors.

## Include information

When you send your well-packed parcel to AES for repair, return or trade-in, be sure to include a letter inside the package. Do not rely on information written or taped on the outside of the carton. This information can be destroyed by moisture or abrasion. In the letter, put your call, name, address, phone and reason for return. You may also want to include your e-mail address and times you can be reached via telephone.

## Dim Weight

When calculating the cost of Air Shipments, whether Fed-Ex, UPS or other carrier, they use Dimensional (Dim) weight to insure adequate revenues per cubic foot of cargo plane space. The illustration above shows how to calculate the Dim weight for both Domestic and International shipments. For example: a 12"x13"x16" box that weighs 6 pounds will be sent at the 12 pound rate via Domestic Air.



# We Invite You to Visit the Nearest AES® Location

All Store Hours: Monday–Friday • 9am to 5:30pm, Saturday • 9am to 3pm

## CLEVELAND, OHIO



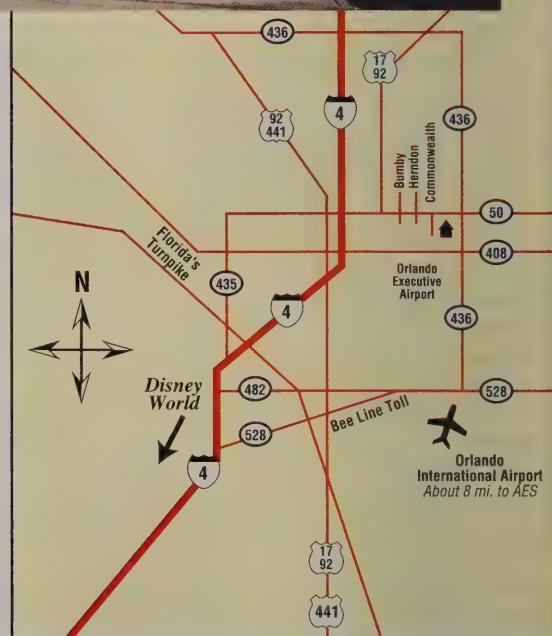
28940 Euclid Ave. • 440-585-7388 • 1-800-321-3594

## MILWAUKEE, WISCONSIN



5710 W. Good Hope Rd. • 414-358-0333 • 1-800-558-0411

## ORLANDO, FLORIDA



621 Commonwealth Ave. • 407-894-3238 • 1-800-327-1917

## LAS VEGAS, NEVADA



4640 South Polaris Ave. • 702-647-3114 • 1-800-634-6227



**ALINCO (HAM DISTRIBUTORS)**  
1775 North Loop 336 East, Suite 8  
Conroe, TX 77301  
936-649-1497 • fax: 936-649-1303  
info@hamdistributors.com

**ALPHA DELTA**  
P.O. Box 620  
Manchester, KY 40962  
606-598-2029 • fax: 606-598-4413  
sales-info@alphadeltacom.com

**AMERICAN RADIO RELAY LEAGUE**  
225 Main St.  
Newington, CT 06111  
860-594-0200 • fax: 860-594-0259  
hq@arrl.org

**ANTENEX**  
See Laird Technologies

**ARROW ANTENNAS**  
911 E. Fox Farm Road #2  
Cheyenne, WY 82007  
307-638-2369  
arrowantennas.com

**AOR U.S.A.**  
20655 S. Western Ave. Suite 112  
Torrance, CA 90501  
310-787-8615 • fax: 310-787-8619  
info@aorusa.com

**ASTRON CORPORATION**  
9 Autry  
Irvine, CA 92618  
949-458-7277 • fax: 949-458-0826  
sales@astroncorp.com

**BARKER & WILLIAMSON (B&W)**  
603 Cidco Road  
Cocoa, FL 32926  
321-639-1510 • fax: 321-445-6031  
tech@bwantennas.com

**BENCHER/ BUTTERNUT**  
241 Depot Street  
Antioch, IL 60002  
847-838-3195 • fax: 847-838-3479  
bencher@bencher.com

**BILAL COMPANY (ISOTRON ANTENNAS)**  
137 Manchester Drive  
Florissant, CO 80816  
719-687-0650 phone/fax  
www.isotronantennas.com

**CABLE X-PERTS**  
P.O. Box 193  
Lincolnshire, IL 60069  
800-828-3340 • fax: 847-276-2577  
info@cablexperts.com

**COMET ANTENNA** See - NCG Co.  
**COMMUNICATIONS SPECIALISTS**  
426 West Taft Ave.  
Orange, CA 92865  
800-854-0547 • fax: 800-850-0547  
sales@com-spec.com

**CONNECT SYSTEMS**  
1802 Eastman Ave Suite 116  
Ventura, CA 93003  
805-642-7184 • fax: 805-642-7271  
sales@connectsystems.com

**CUSHCRAFT CORPORATION**  
48 Perimeter Road  
Manchester, NH 03108  
603-627-7877 • fax: 603-627-1764  
techsup@cushcraft.com

**DAVIS INSTRUMENTS**  
3465 Diablo Ave.  
Hayward, CA 94545  
510-732-9229 • fax: 510-670-0589  
support@davisnet.com

**DCI DIGITAL COMMUNICATIONS**  
20 South Plains Road  
Emerald Park, SK, Canada - S4L 1B7  
800-563-5351 • fax: 306-781-2008  
dci@dci.ca

**DIAMOND ANTENNA/RF PARTS**  
435 So. Pacific St.  
San Marcos, CA 92078  
760-744-0900 • fax: 760-744-1943  
diamondantenna@rfparts.com

**GAP ANTENNA PRODUCTS**  
99 North Willow St.  
Fellsmere, FL 32948  
772-571-9922 • fax: 772-571-9988  
contact@gapantenna.com

**GARMIN USA**  
1200 E. 151st Street  
Olathe, KS 66062  
800-800-1020 • fax: 913-397-8282

**GLEN MARTIN ENGINEERING**  
13620 Old Hwy 40  
Boonville, MO 65233  
800-486-1223 • fax: 775-490-1300  
info@glenmartin.com

**GRUNDIG/ETON**  
1015 Corporation Way  
Palo Alto, CA 94303  
800-872-2228 • fax: 650-903-3867  
info@grundig.com

**HAL COMMUNICATIONS**  
P.O. Box 365  
Urbana, IL 61803  
217-367-7373 • fax: 217-367-1701  
halcomm@halcomm.com

**HARGER LIGHTNING & GROUNDING**  
301 Ziegler Drive  
Grayslake, IL 60030  
800-842-7437 • fax: 847-548-8755  
hargersales@harger.com

**HEIL SOUND**  
5800 N. Illinois  
Fairview Heights, IL 62208  
618-257-3000 • fax: 618-257-3001  
info@heilsound.com

**HUSTLER (NEW-TRONICS)**  
225 Van Story Road  
Mineral Wells, TX 76067  
877-994-9499 • fax: 940-325-5077  
service@new-tronics.com

**ICOM AMERICA**  
2380 116th Avenue N.E.  
Bellevue, WA 98004  
425-454-8155 • fax: 425-454-1509  
Tech Support: 800-253-1498  
amateur@icomamerica.com

**ICOM SERVICE CENTER - MICHIGAN**  
1792 Nash Drive  
St. Joseph, MI 49085  
269-429-2334

**ICOM SERVICE CENTER - SOUTH EAST**  
1140 Watkins Road  
Anderson, SC 29625  
864-222-3539 • fax: 864-222-3538

**KANTRONICS**  
3115 West 6th. St. Suite A  
Lawrence, KS 66049  
785-842-7745 • fax: 785-842-2031  
service@kantronics.com

**KENWOOD COMMUNICATIONS**  
P.O. Box 22745  
Long Beach, CA 90801-5745  
310-639-4200 • fax: 310-537-8235  
kcc-amateur@kenwoodusa.com  
www.kenwood.net

**KENWOOD SERVICE CENTER-WEST**  
17300 Marquardt Ave.  
Cerritos, CA 90703-1023  
562-483-8740 • fax: 562-483-8749

**KENWOOD SERVICE CENTER-EAST**  
829 Lynnhaven Parkway, #130  
Virginia Beach, VA 23452  
757-340-1702 • fax: 757-340-6809

**LAIRD TECHNOLOGIES**  
1751 Wilkening Ct.  
Schaumburg, IL 60173  
847-839-6035 • fax: 847-839-6035  
customercare@antenex.com

**LDG ELECTRONICS**  
1445 Parran Rd. P.O. Box 48  
St. Leonard, MD 20685  
410-586-2177 • fax: 410-586-8475  
ldg@ldgelectronics.com

**LARSEN ANTENNAS**  
3611 NE 112th Ave.  
Vancouver, WA 98682  
360-944-7551 • fax: 360-944-7556  
www.larsen-antennas.com

**M2 ANTENNAS**  
4402 N. Selland Ave.  
Fresno, CA 93722  
559-432-8873 • fax: 559-432-3059  
www.m2inc.com

**MFJ ENTERPRISES (AMERITRON,  
HY-GAIN, MIRAGE, VECTRONICS)**  
300 Industrial Park Rd.  
Starkville, MS 39759  
800-647-1800 • fax: 662-323-6551  
mfjcustserv@mfjenterprises.com

**(AMERITRON)** 662-323-8211  
ameritron@ameritron.com

**(HY-GAIN)** 662-323-9538  
hygain@mfjenterprises.com

**(MIRAGE)** 662-323-8287  
mfjcustserv@mirageamp.com

**(VECTRONICS)** 662-323-5800  
mfjcustserv@vectronics.com

**MAHA ENERGY**  
18567 E. Gale Ave.  
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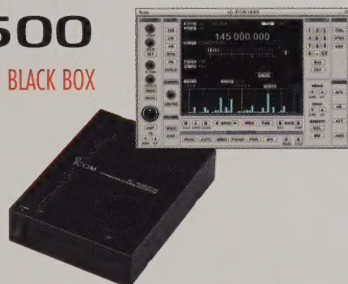
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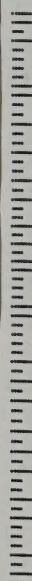
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